

FIG 1

10005219-120401
DOCKET 67250001

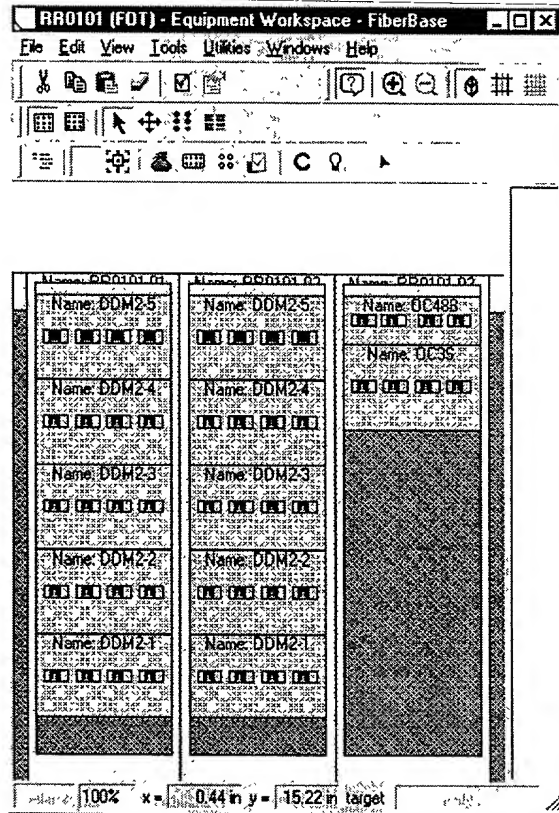


FIG. 2

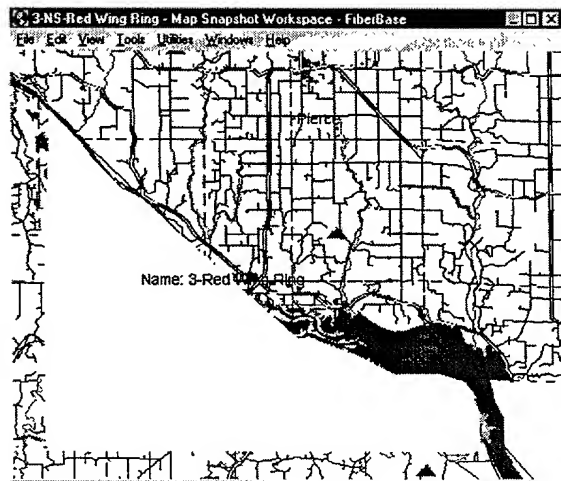


FIG. 3

10005215-120401

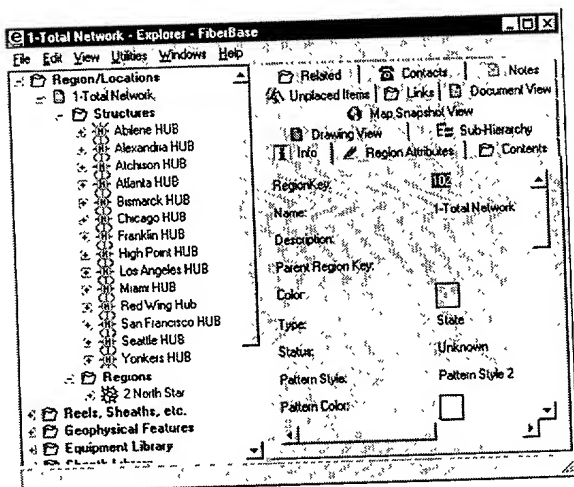


FIG 4

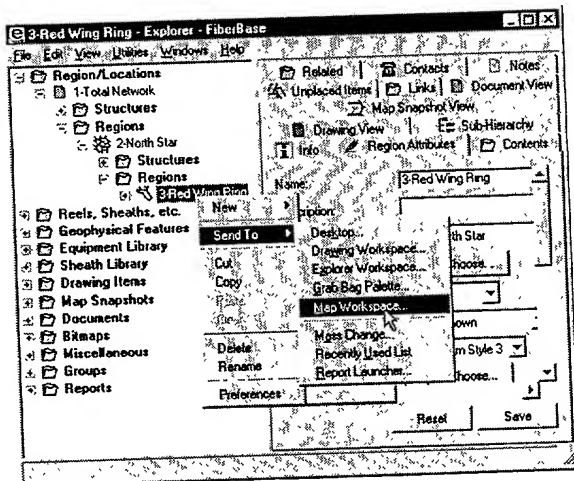


FIG 5

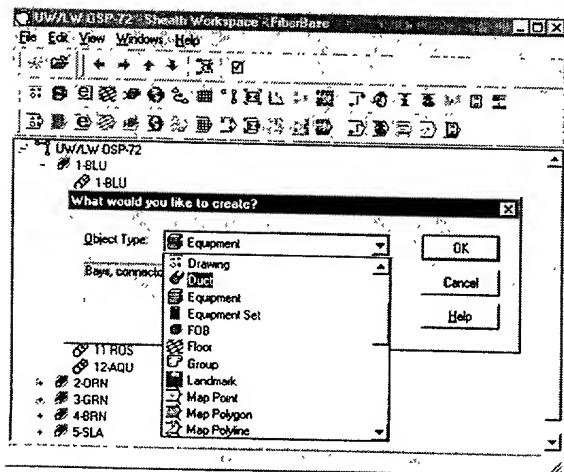


FIG 6

1005219-120401

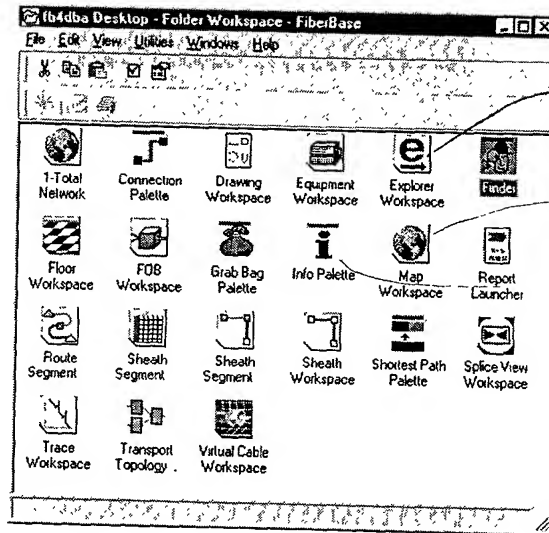


FIG 7

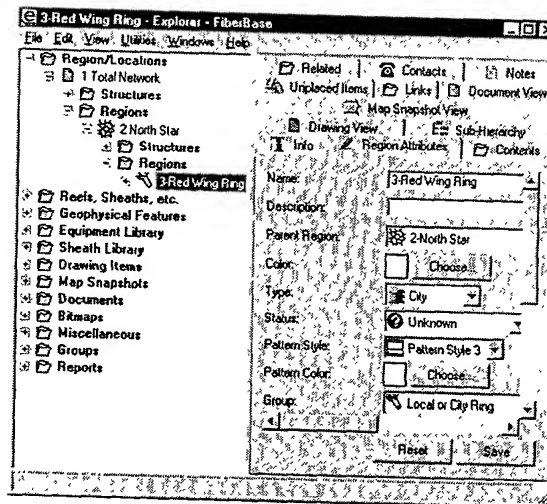


FIG 8

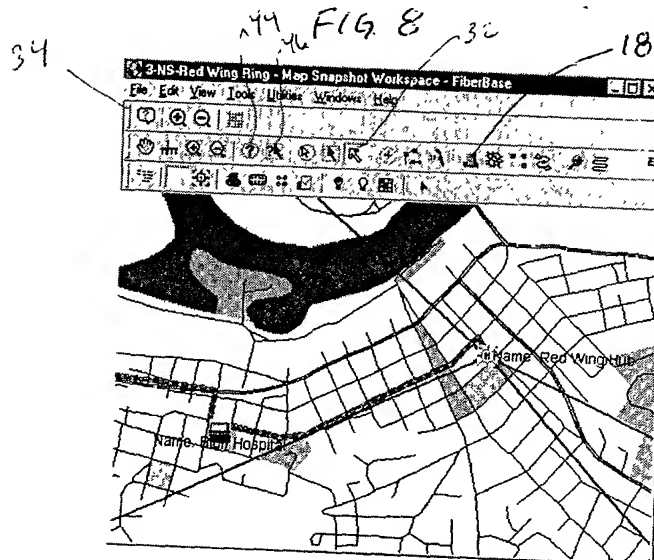


FIG 9

1005219-10401

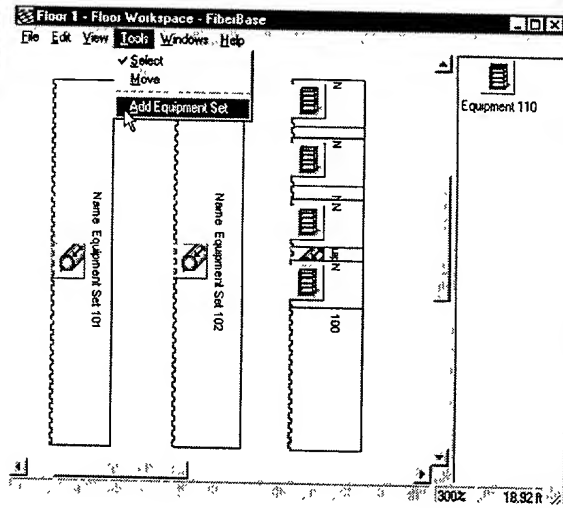


FIG. 10

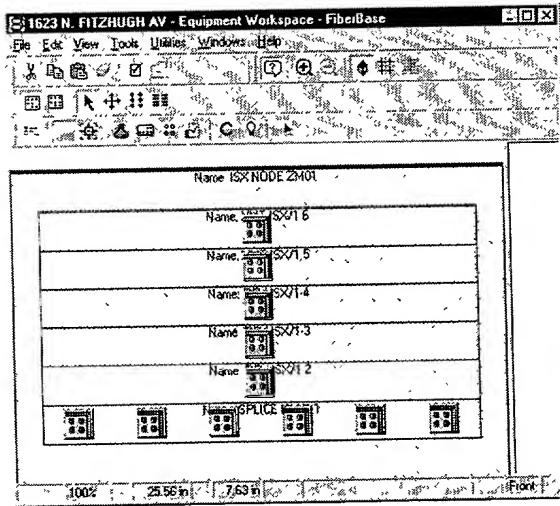


FIG. 11

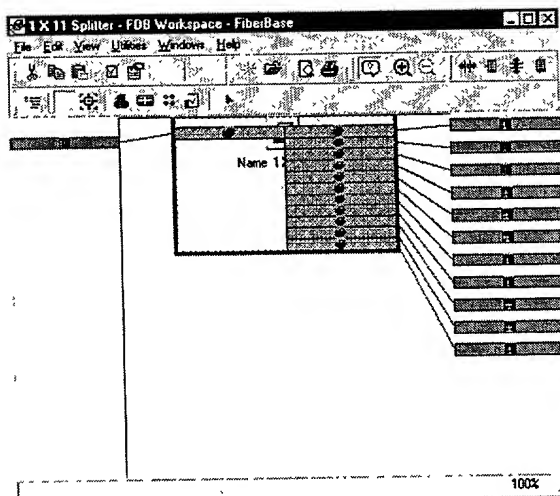


FIG. 12

1005619-120401

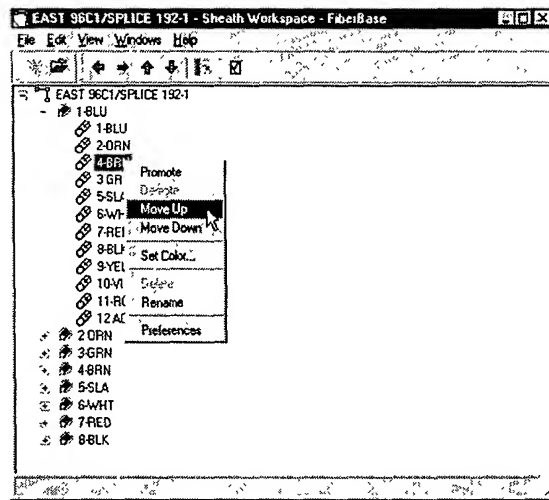


FIG. 13

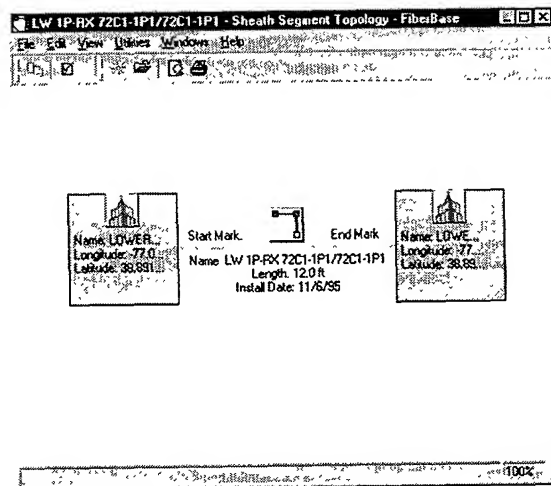


FIG. 14

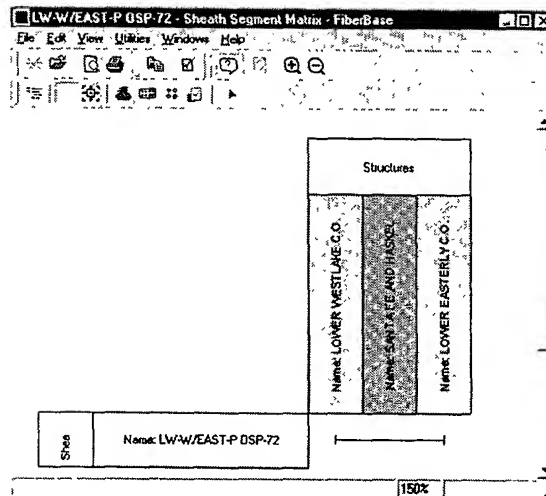


FIG. 15

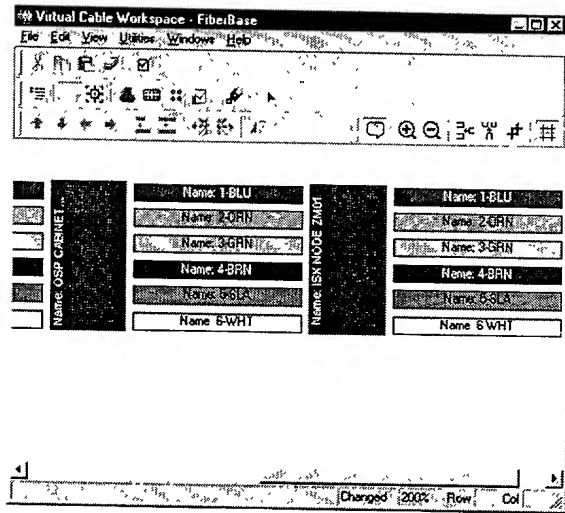


FIG. 16

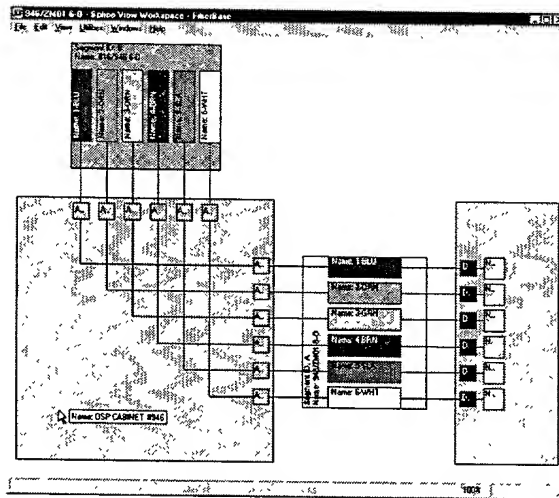


FIG. 17

FIG. 16

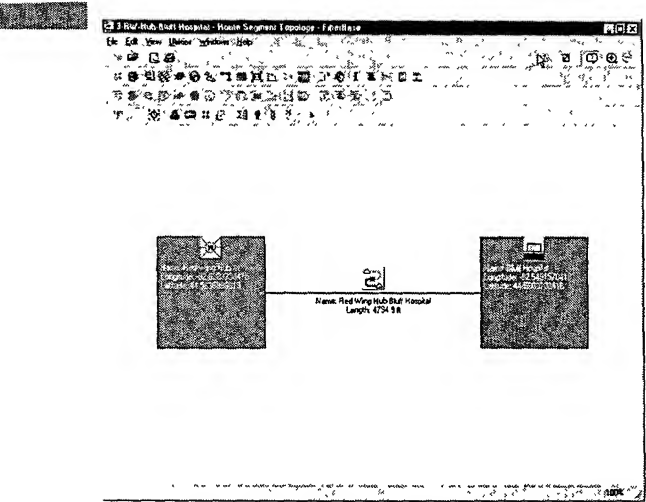


FIG 18

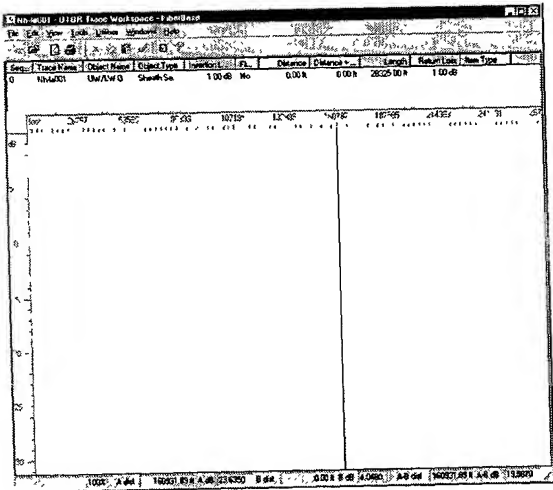


FIG 19

FIG 19

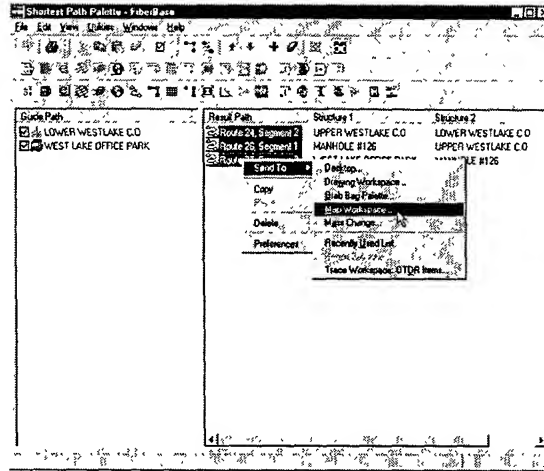


FIG. 20

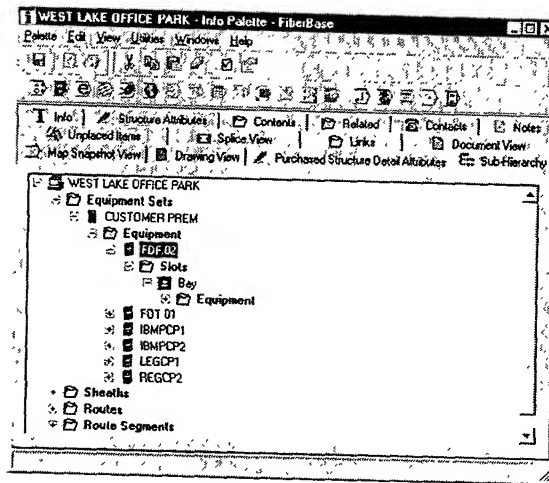


FIG. 21

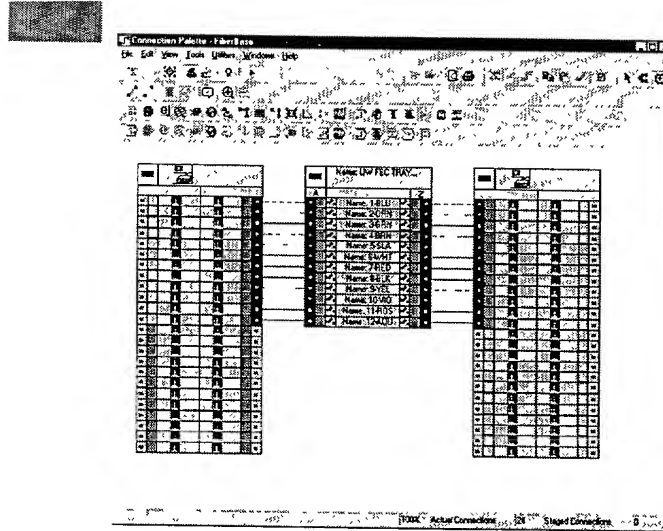


FIG. 22

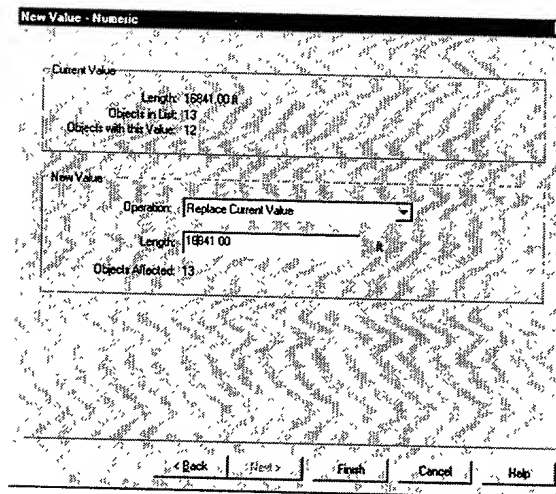


FIG. 23

FIG. 22

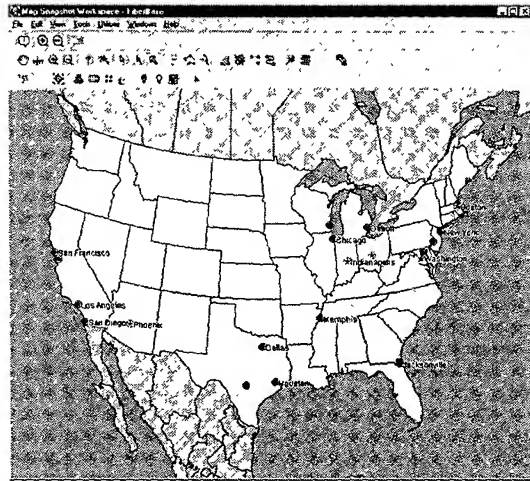


FIG 24

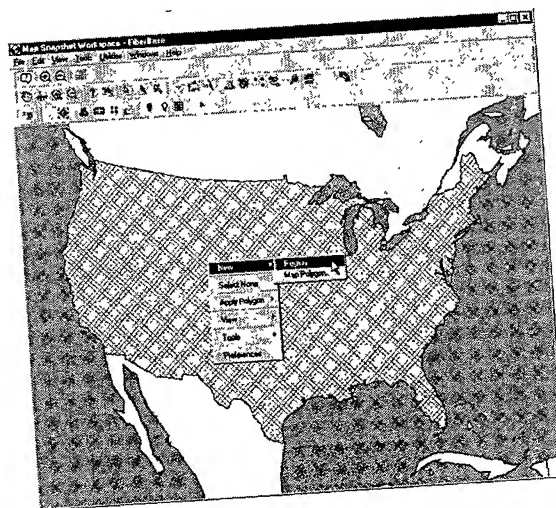


FIG 25

New Region Basic Attributes

Name:

Description:

Color:

Type:

Parent Region:

Group: ☒ Miscellaneous

ACL:

FIG. 26

1005219-120401

New Group Basic Attributes

Name:

Description:

Color:

Object Type:

Large Bitmap:

Small Bitmap:

< Back Next > Finish Cancel Help

FIG. 27

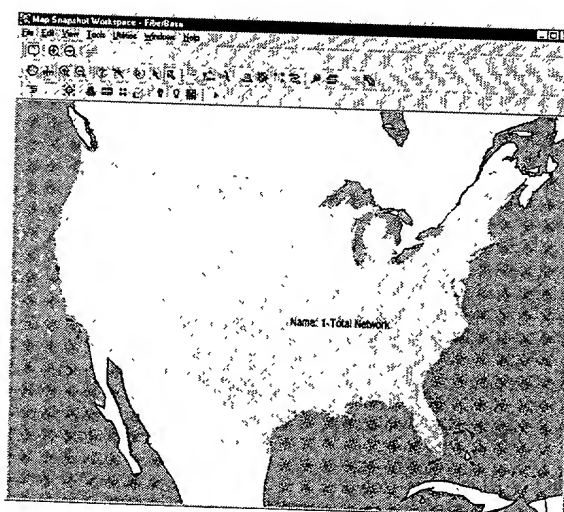


FIG. 28

New Structure Basic Attributes

Name:

Description:

Color:

Type:

Parent:

Group:

AQL:

< Back Next > Finish Cancel Help

Elsworth Red Wing Zumbrota Pie Island Kasson Blountville Chasfield Ruchford La Crosse Osage

Black River Falls Fort M

FIG. 29

1005219-420401

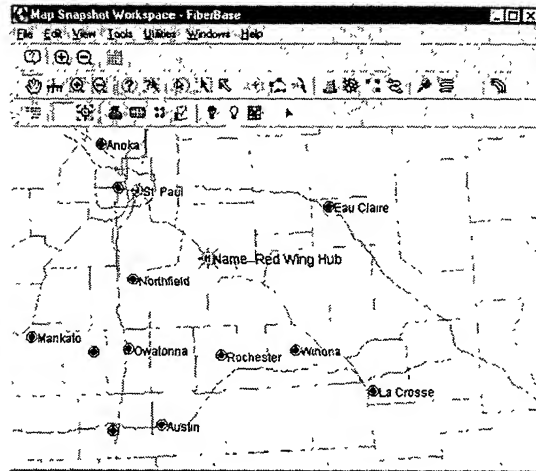


FIG 30

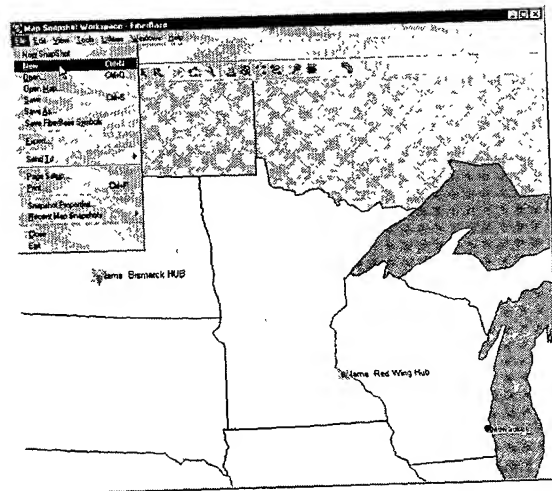


FIG 31

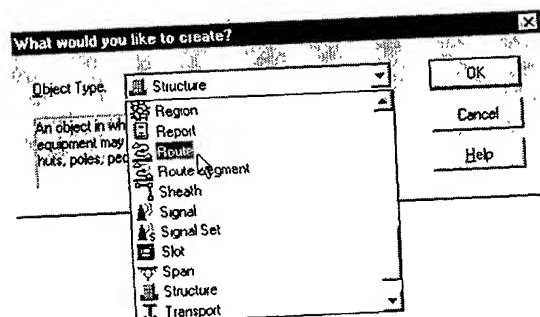


FIG. 32

New Route Basic Attributes

Name: 1-Red Wing-Bismarck-Long Haul

Description: Top-level network long-haul trunk (OC-192)

Color: Choose...

Type: Customer Service

Related Structure #1: Red Wing Hub Browse... New...

Related Structure #2: Bismarck HUB Browse... New...

Group: Long-Haul Trunk Browse... New...

ADL: (none) Browse... New...

< Back Next > Finish Cancel Help

FIG 33

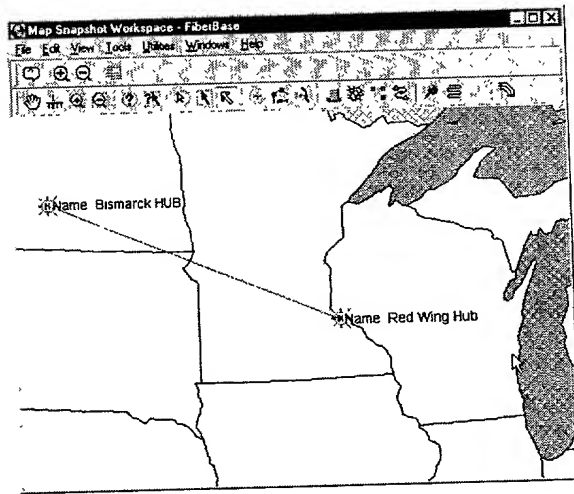


FIG 34

FIG 33

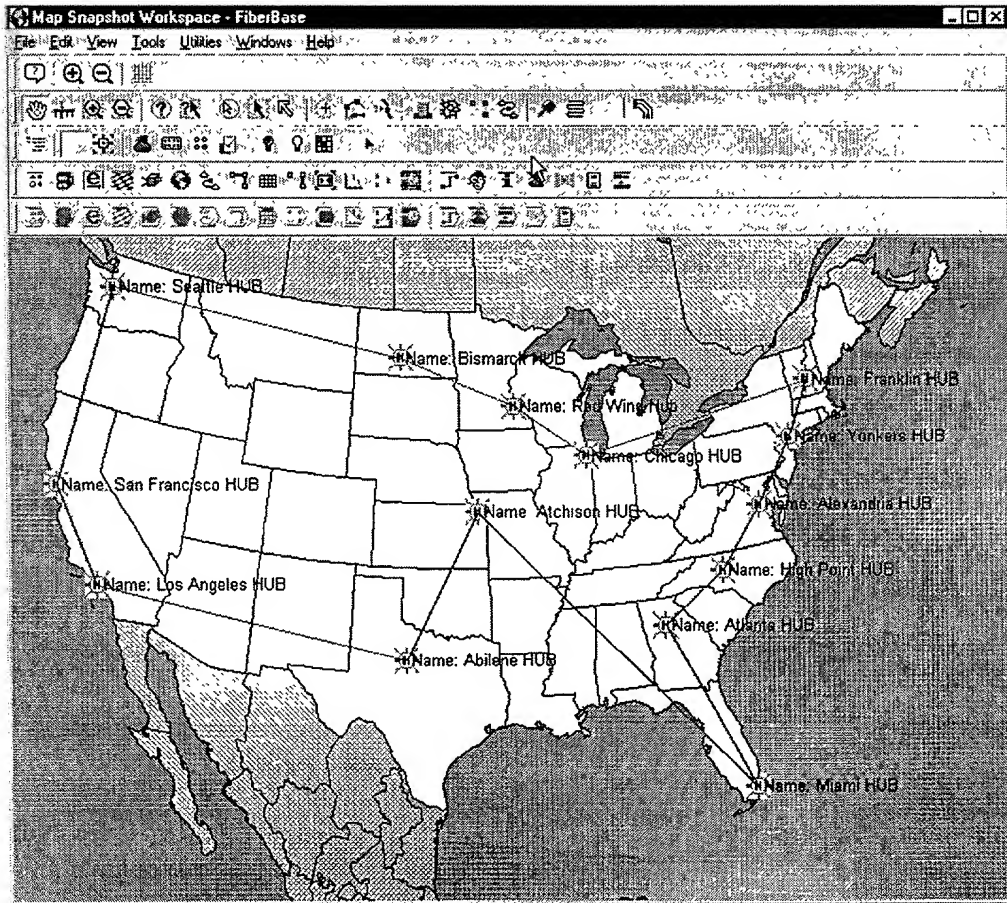
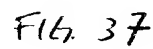
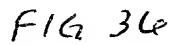


FIG. 35



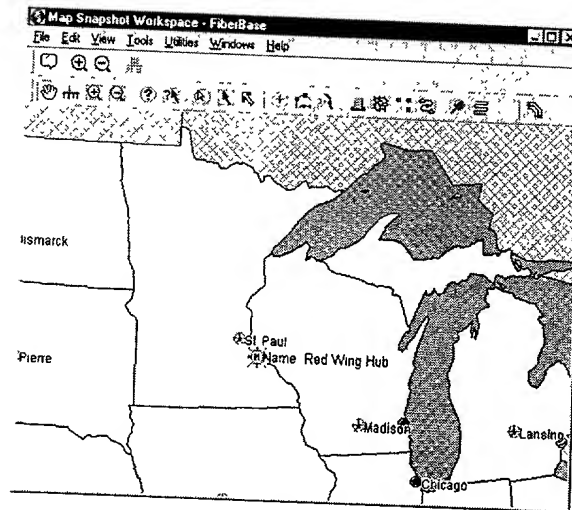


FIG 38

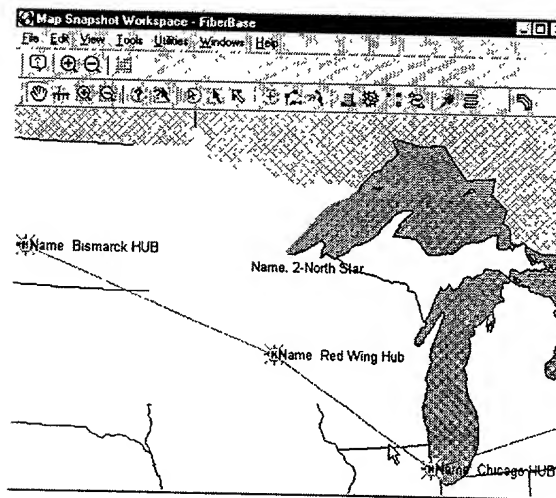


FIG 39

10005619-120401

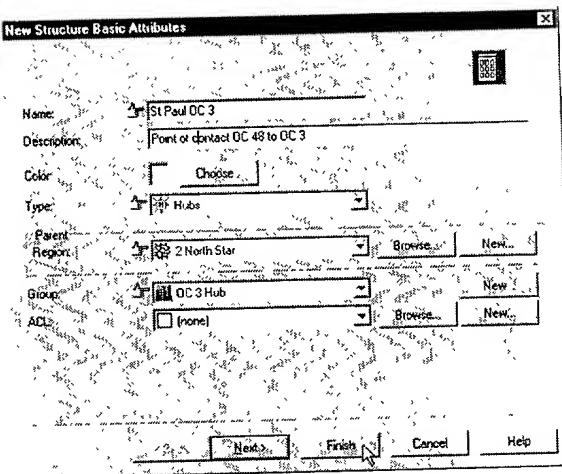


FIG 40

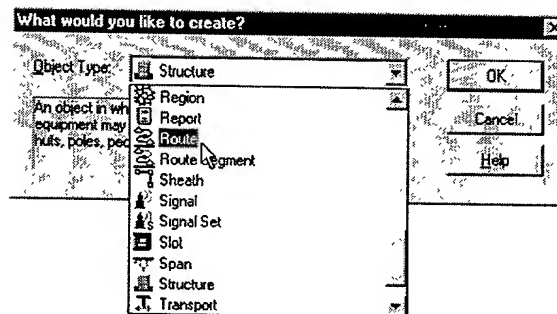


FIG. 41

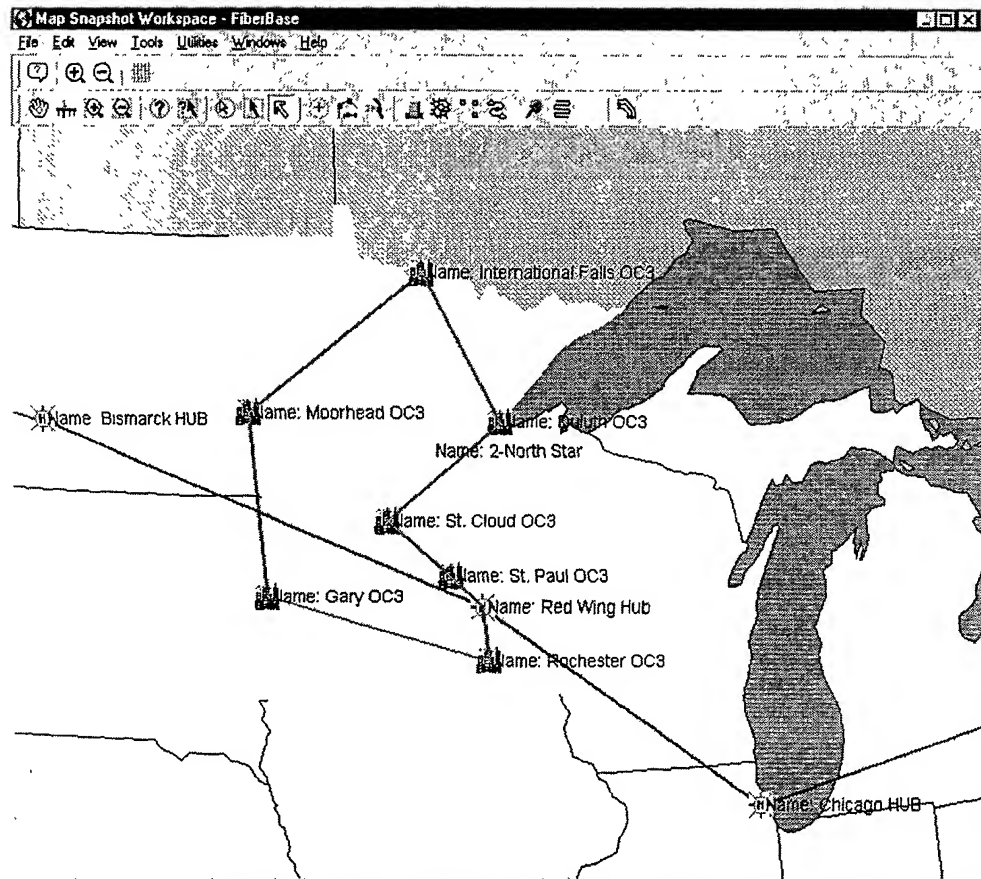
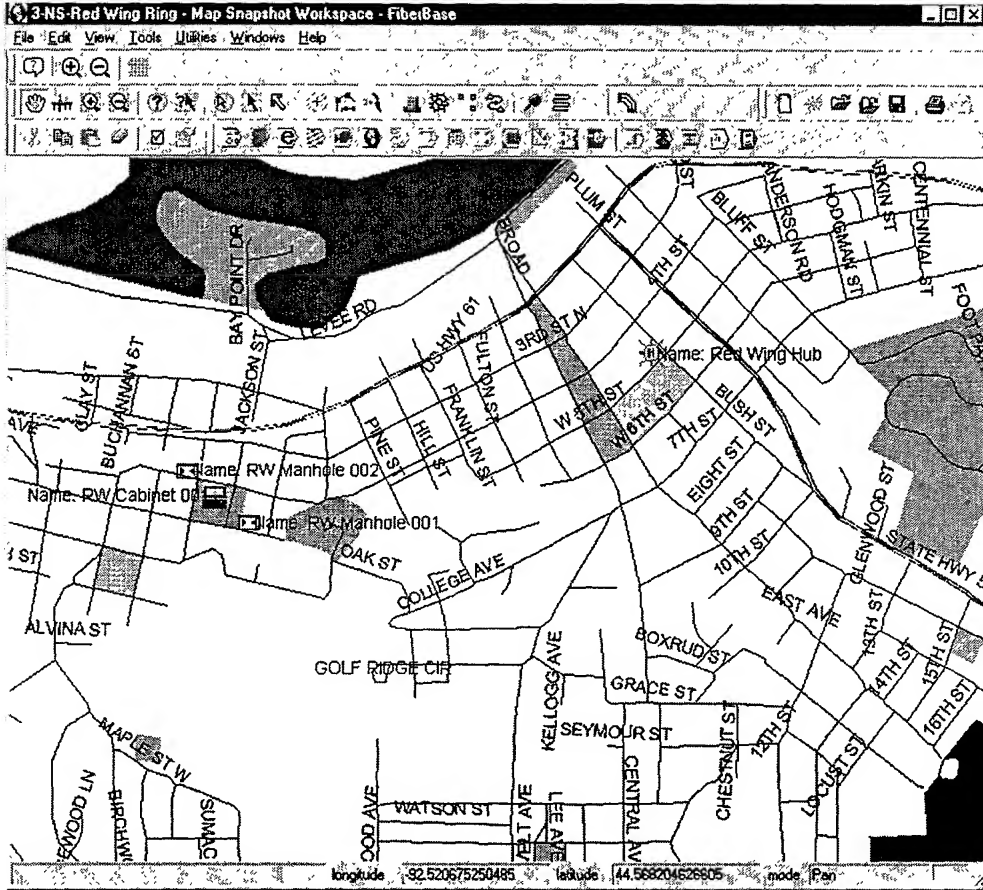


FIG. 42

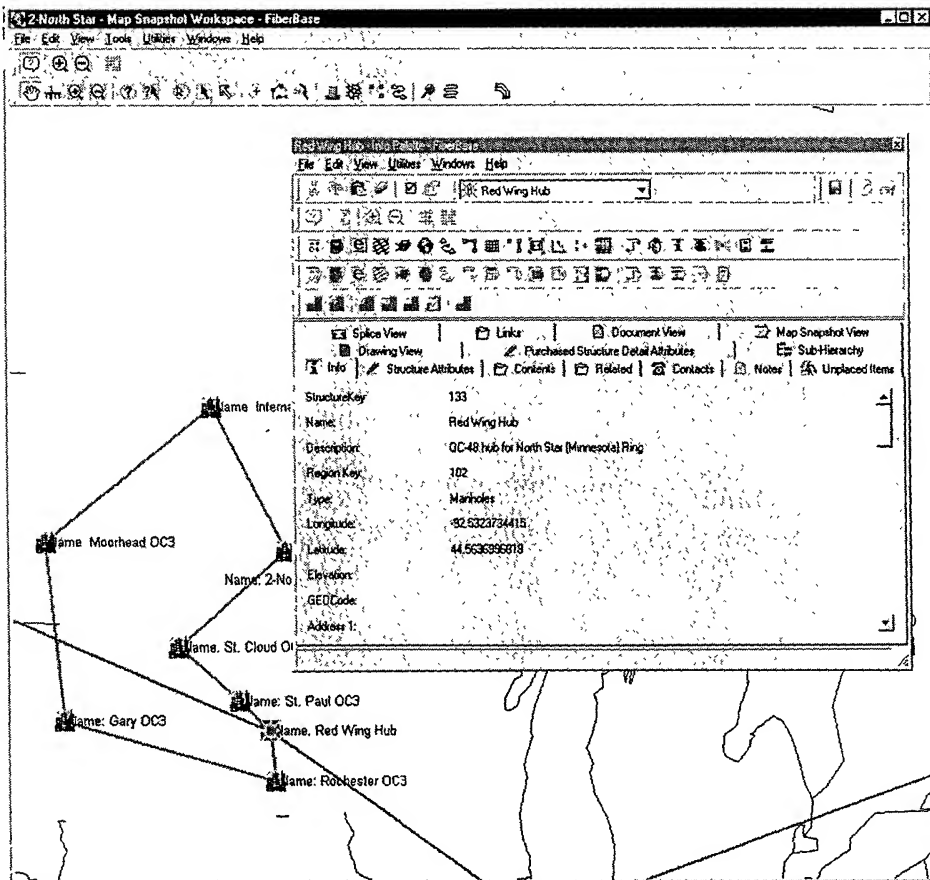
FIG. 42



City-Level Region Structures

FIG. 43

FIG. 43



Using the Info Palette to Obtain Information
for a Selected FiberBase Item

F16 44

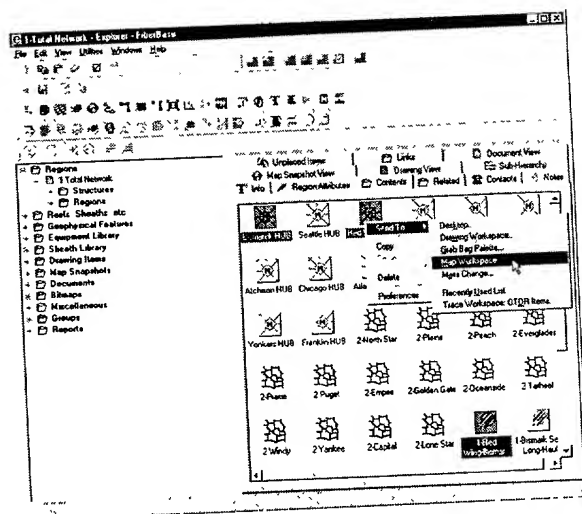
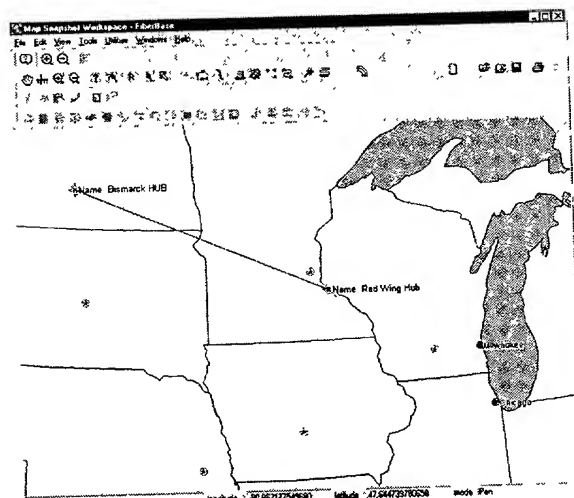


FIG. 45



Long-Haul Route In Map Workspace

FIG. 46

FIG. 45

New Route Segment Basic Attributes

Name:

Description:

Color:

Type: ☐ Buried

Related Structure #1:

Structure #2:

Group:

ACL: ☐ (none)

FIG. 47



FIG. 48

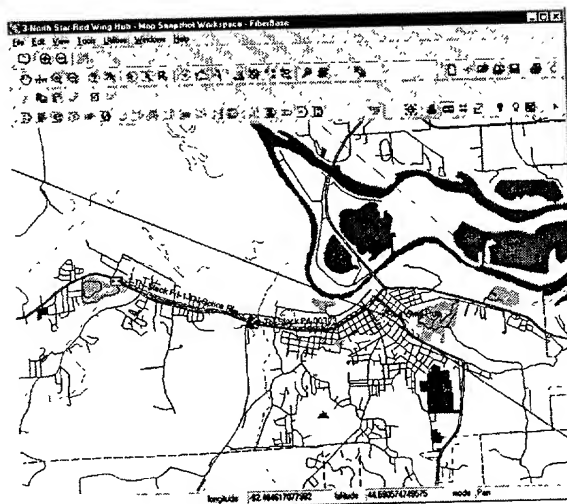


FIG. 49

10005219-120404

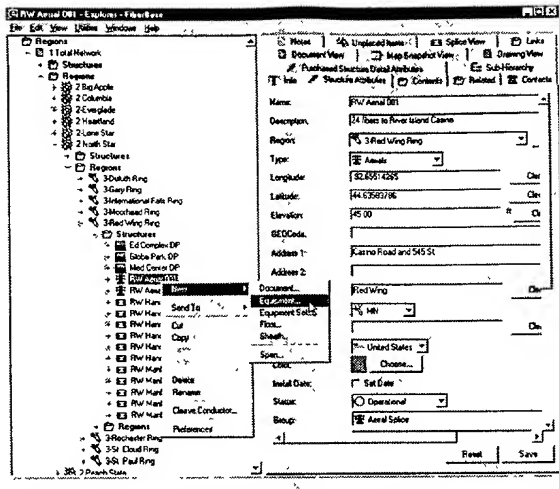


FIG 50

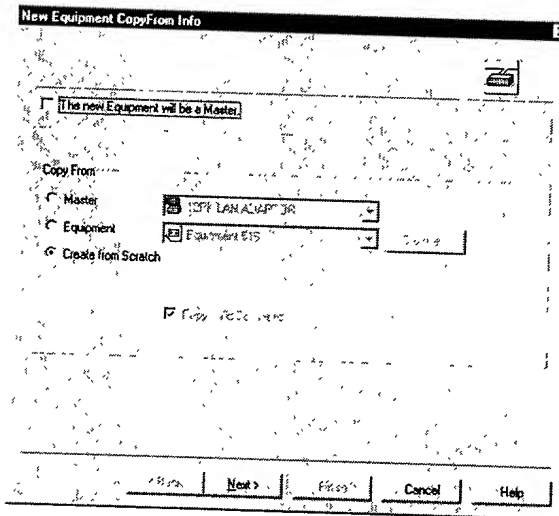


FIG 51

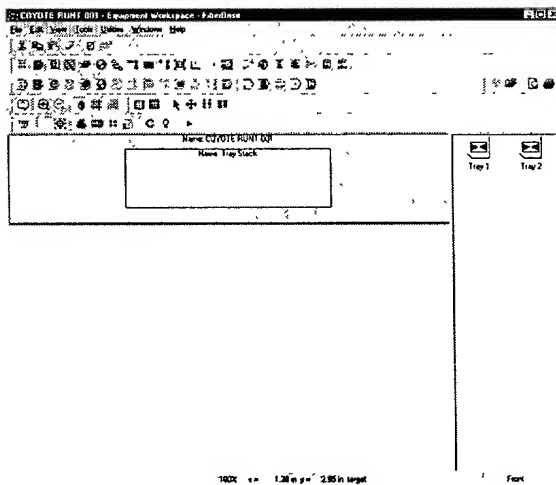


FIG 52



FIG 53



FIG 54

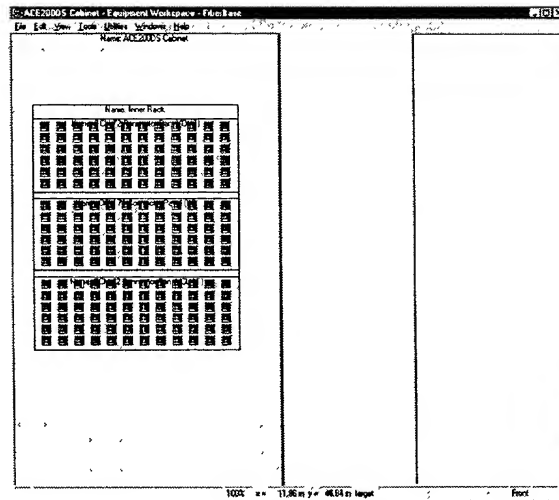


FIG 55

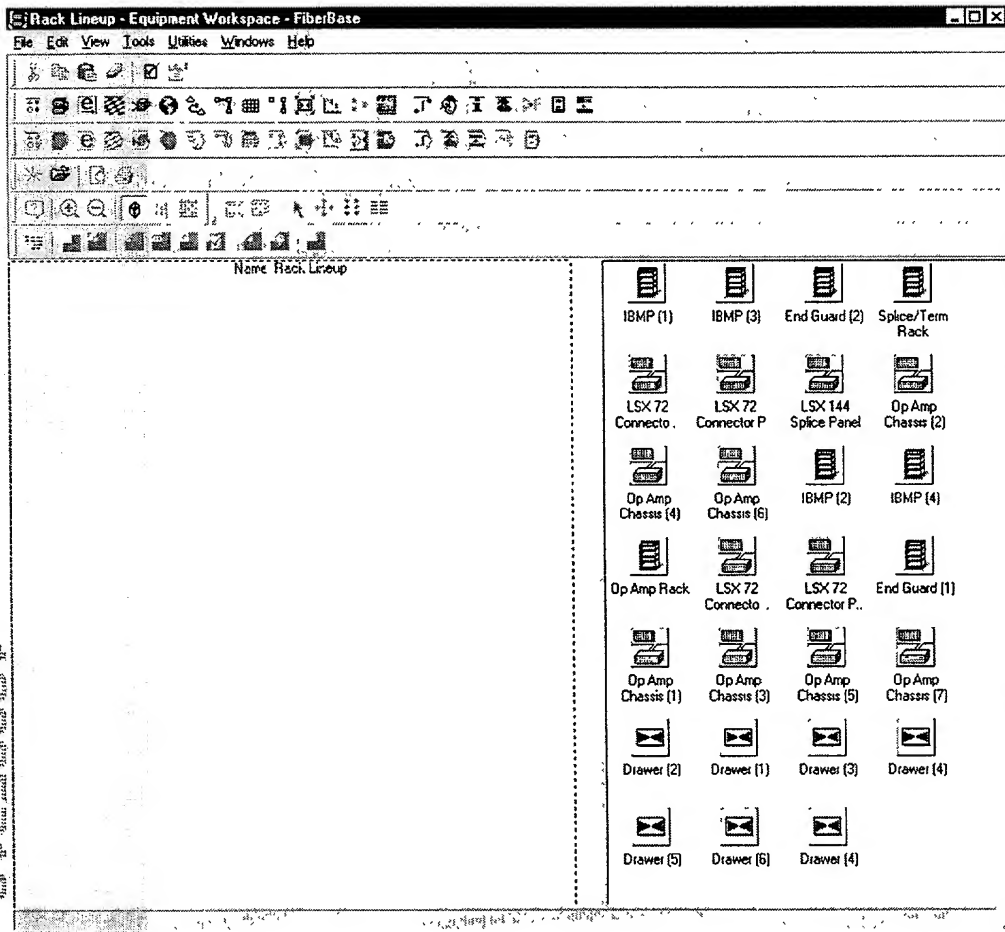


FIG. 56

FIG. 56

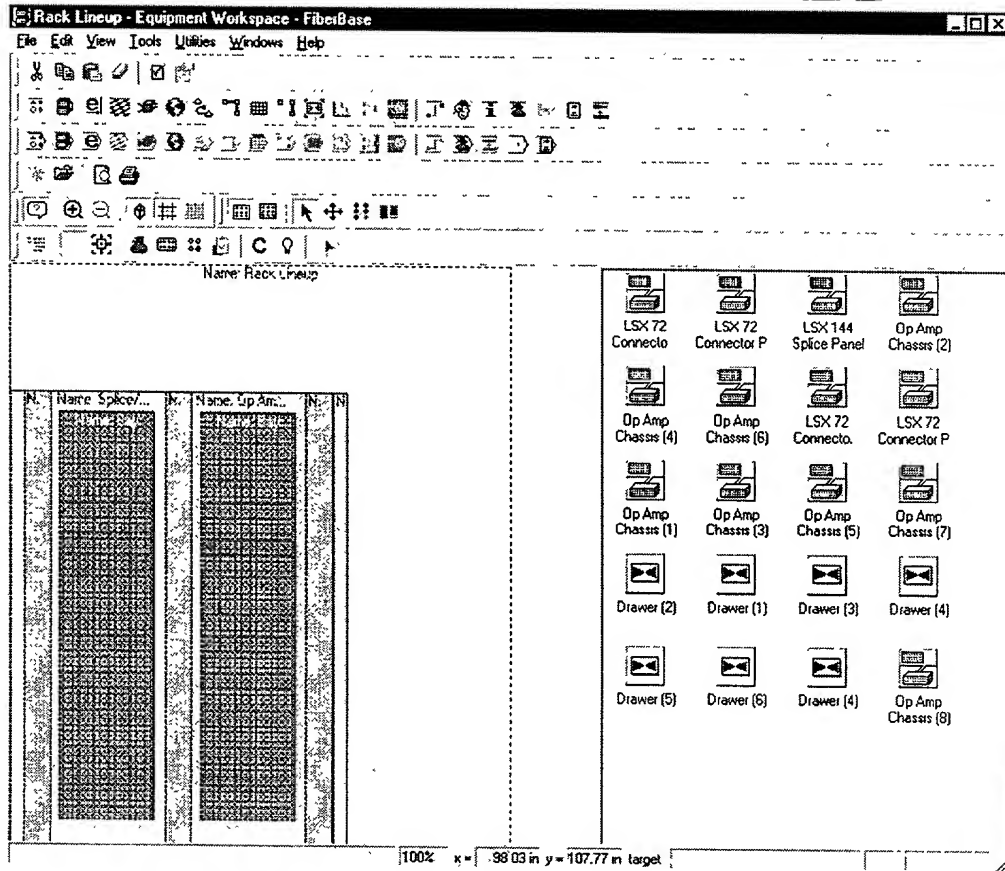
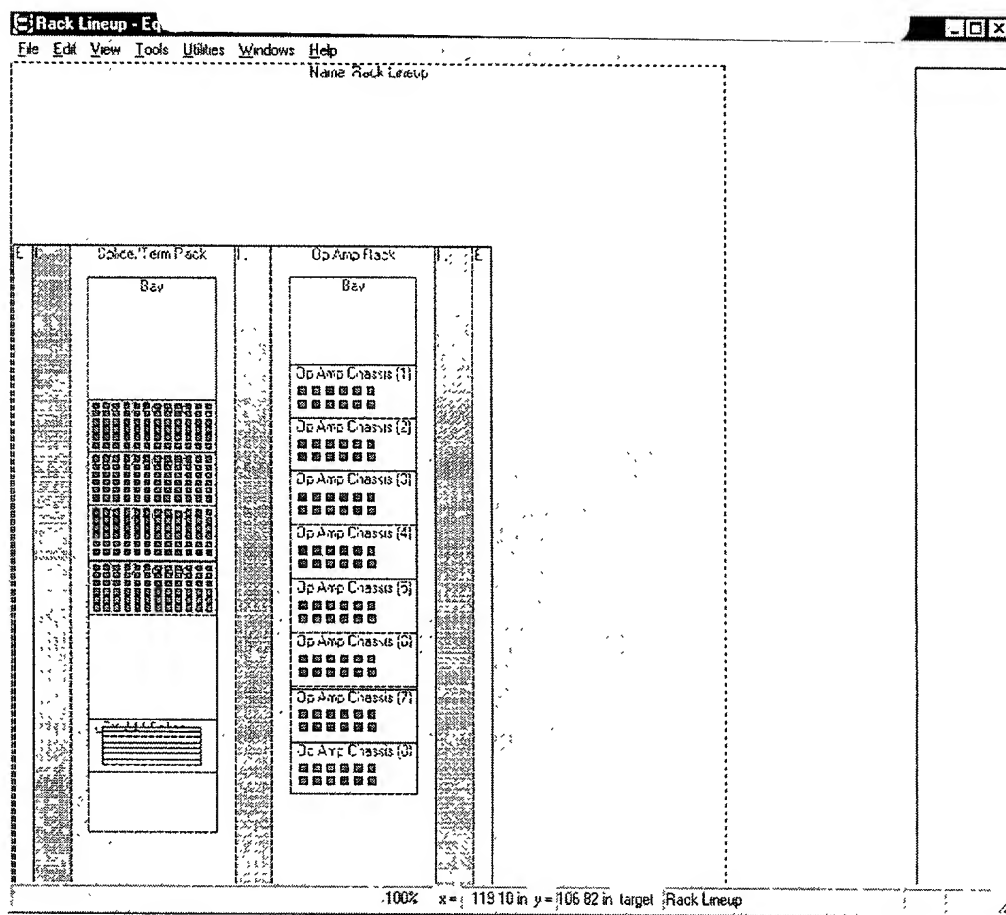


FIG. 57

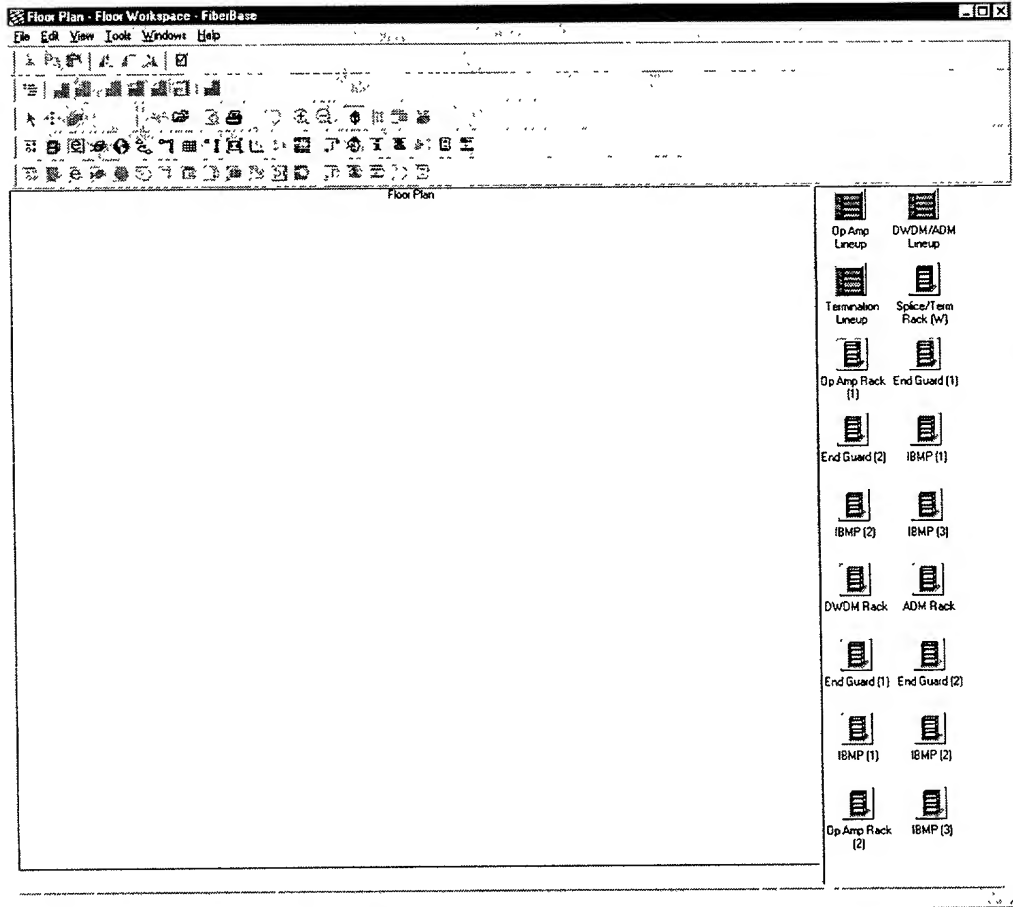
1000519-100401



Completed Lineup in Equipment Workspace

FIG. 58

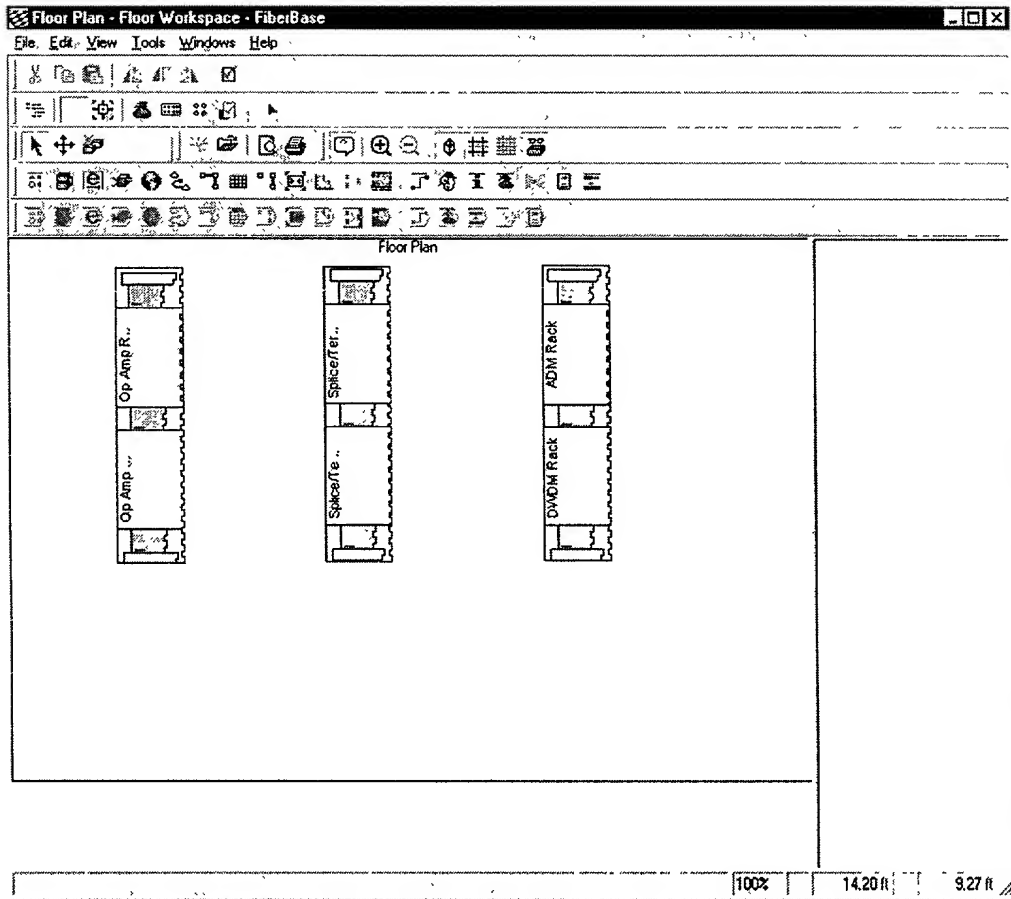
FIG. 58



Floor Plan With Unplaced Items

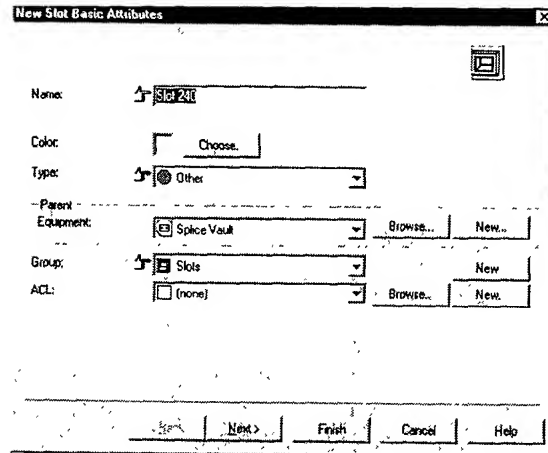
FIG. 59

FIG. 59



Floor Plan With Placed Items

FIG 60



New Slot Basic Attributes

Name:

Color:

Type: ☒ Other

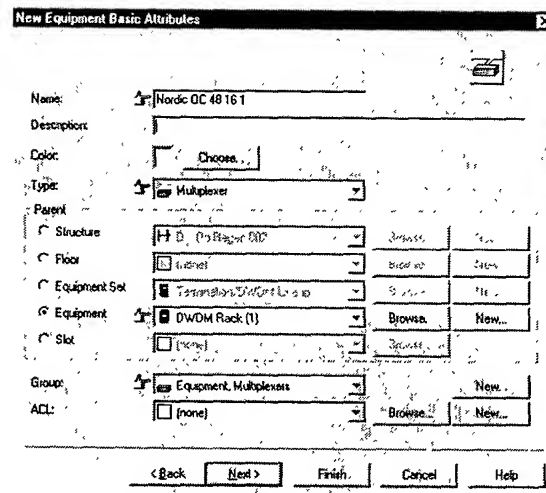
Parent:

Equipment:

Group: ☒ Slots

ACL: ☐ (none)

FIG. 61



New Equipment Basic Attributes

Name:

Description:

Color:

Type: ☒ Multiplexer

Parent:

Structure: ☒ D. (by Region ID)

Floor: ☐ 1st floor

Equipment Set: ☒ Transmission Equipment

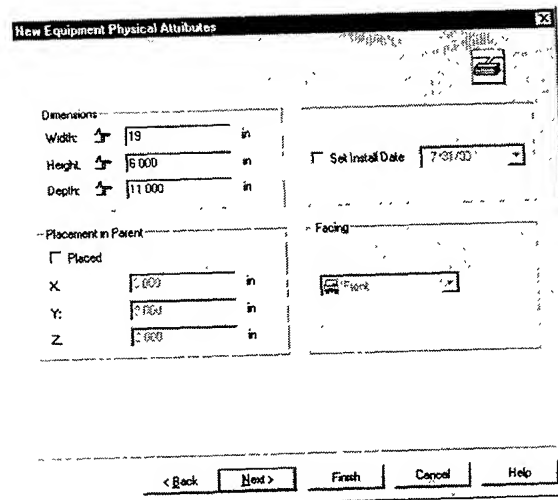
Equipment: ☒ DWDM Rack (1)

Slot: ☐ (none)

Group: ☒ Equipment, Multiplexers

ACL: ☐ (none)

FIG. 62



New Equipment Physical Attributes

Dimensions:

Width: in

Height: in

Depth: in

Placement in Parent:

☐ Placed

X: in

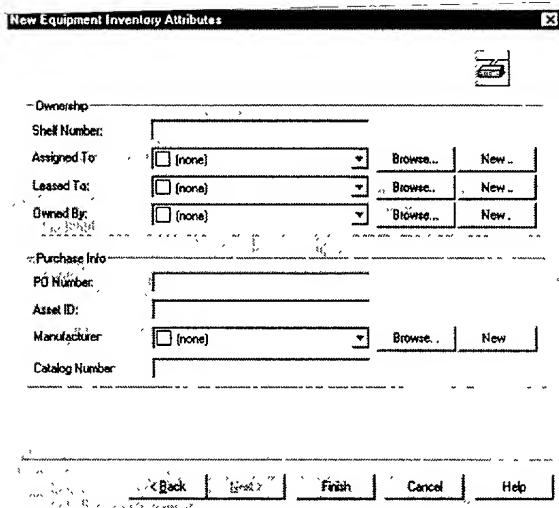
Y: in

Z: in

Facing:

FIG. 63

1005319-120401



The "New Equipment Inventory Attributes" dialog box is divided into two main sections: "Ownership" and "Purchase Info".

Ownership Section:

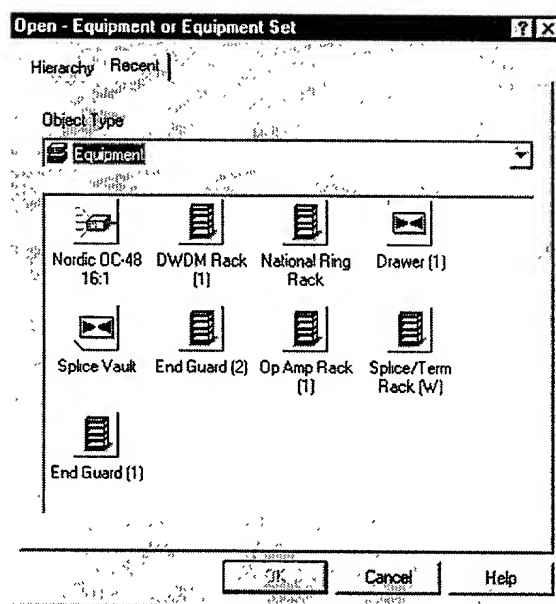
- Shelf Number:** A text input field.
- Assigned To:** A dropdown menu with "(none)" selected, accompanied by "Browse..." and "New..." buttons.
- Leased To:** A dropdown menu with "(none)" selected, accompanied by "Browse..." and "New..." buttons.
- Owned By:** A dropdown menu with "(none)" selected, accompanied by "Browse..." and "New..." buttons.

Purchase Info Section:

- PO Number:** A text input field.
- Asset ID:** A text input field.
- Manufacturer:** A dropdown menu with "(none)" selected, accompanied by "Browse..." and "New..." buttons.
- Catalog Number:** A text input field.

At the bottom of the dialog are five buttons: "< Back", "Next >", "Finish", "Cancel", and "Help".

FIG. 64



The "Open - Equipment or Equipment Set" dialog box features a "Hierarchy" tab and a "Recent" tab. The "Object Type" dropdown is set to "Equipment".

The main area displays a grid of equipment icons and labels:

- Nordic OC-48 16:1
- DWDM Rack (1)
- National Ring Rack
- Drawer (1)
- Splice Vault
- End Guard (2)
- Op Amp Rack (1)
- Splice/Term Rack (W)
- End Guard (1)

At the bottom are three buttons: "OK", "Cancel", and "Help".

FIG. 65

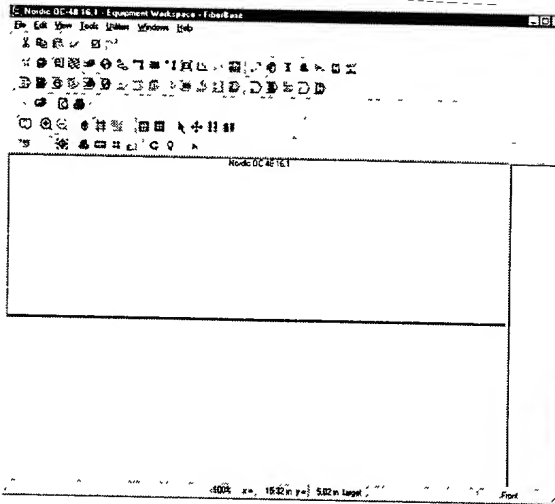


FIG. 66

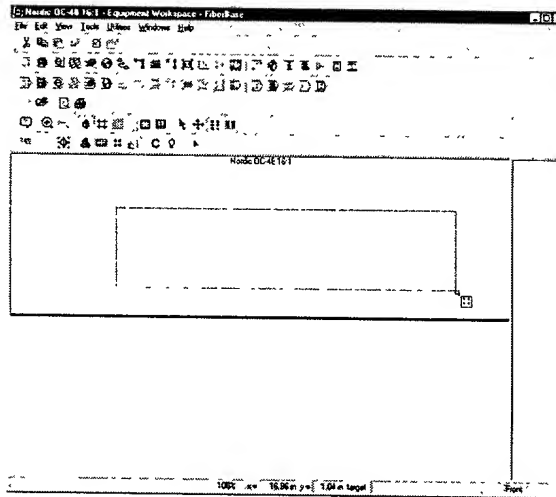


FIG. 67

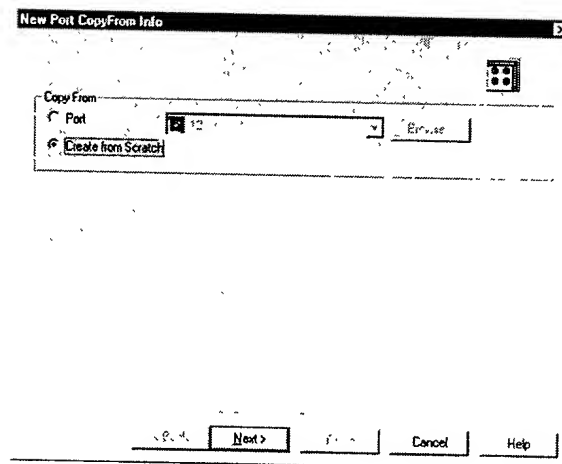
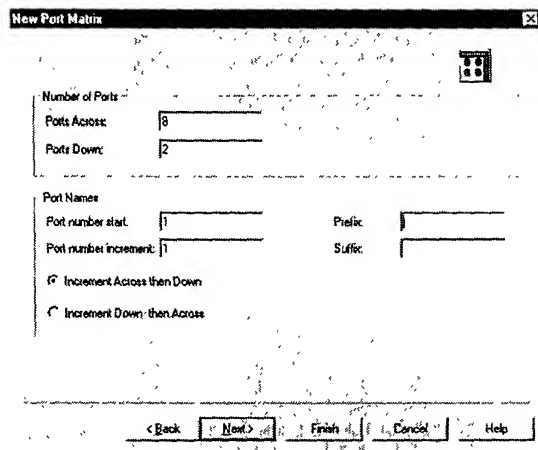


FIG. 68

FIG. 66



New Port Matrix

Number of Ports

Ports Across:

Ports Down:

Port Names

Port number start: Prefix:

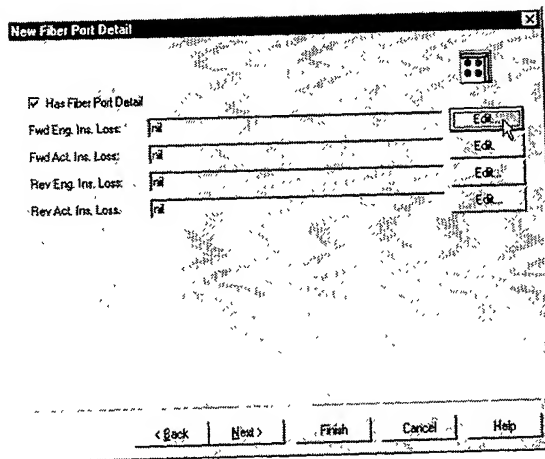
Port number increment: Suffix:

☒ Increment Across then Down

☐ Increment Down then Across

< Back New > Finish Cancel Help

FIG 69



New Fiber Port Detail

☒ Has Fiber Port Detail

Fwd Eng. Ins. Loss: Edit

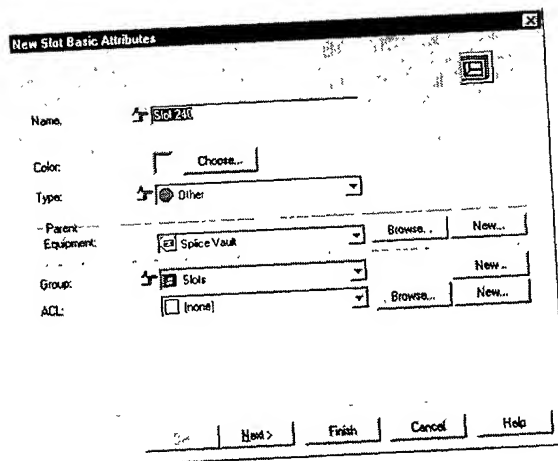
Fwd Act. Ins. Loss: Edit

Rev Eng. Ins. Loss: Edit

Rev Act. Ins. Loss: Edit

< Back Next > Finish Cancel Help

FIG 70



New Slot Basic Attributes

Name:

Color:

Type: ☒ Other

Parent Equipment: Browse... New...

Group: Browse... New...

ACL: Browse... New...

< Next > Finish Cancel Help

FIG 71

1005319 130404

New Equipment Physical Attributes

Dimensions

Width: 19 in

Height: 6.000 in

Depth: 11.000 in

☐ Set Install Date: 7/7/07

Placement in Parent

☐ Placed

X: 0.000 in

Y: 0.000 in

Z: 0.000 in

Facing: Front

< Back Next > Finish Cancel Help

FIG 72

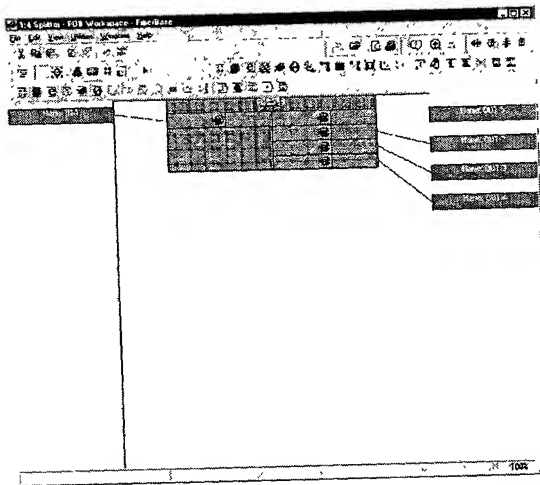


FIG 73

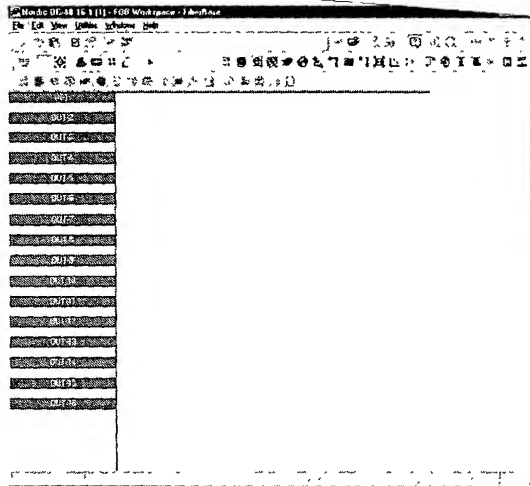


FIG 74

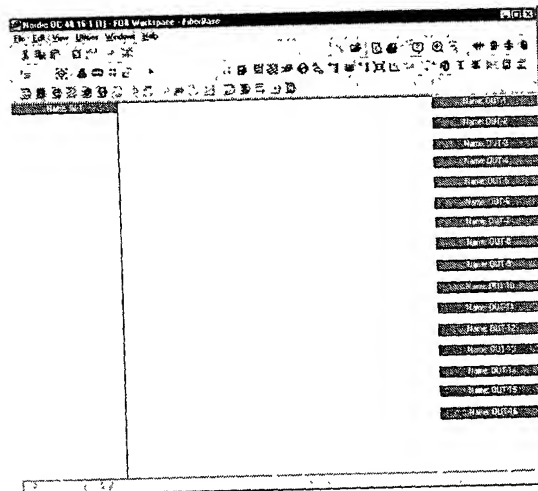


FIG 75

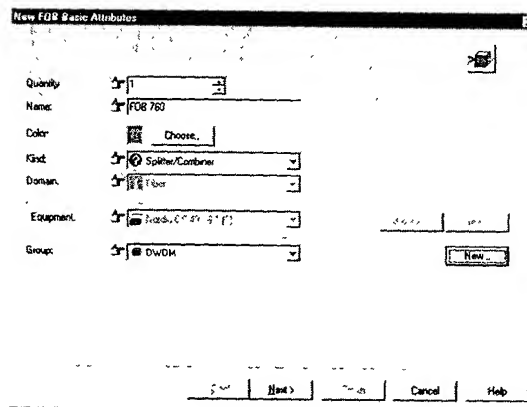
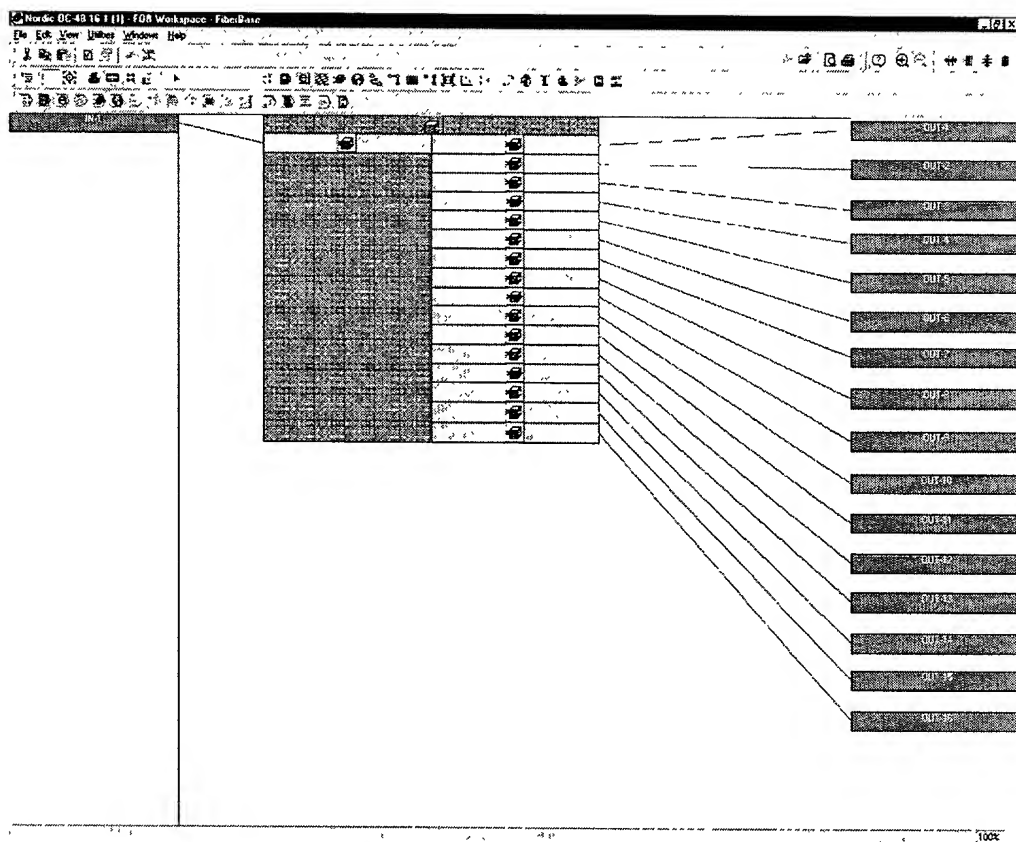


FIG. 76

1005219-120401
FO4027-5125001



Completed FOB Example

FIG. 77

FO402T-612500T-100531-120404

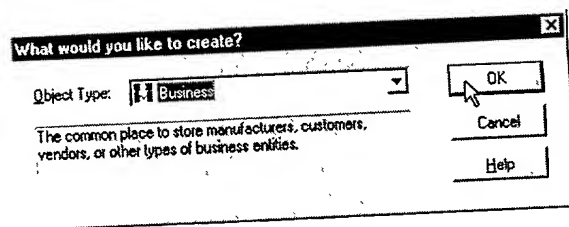


FIG 78

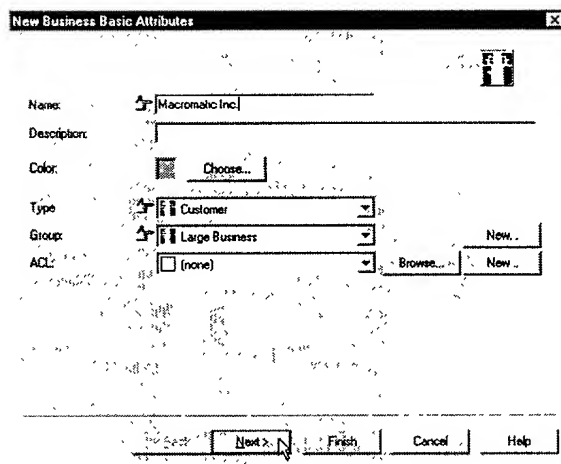


FIG 79

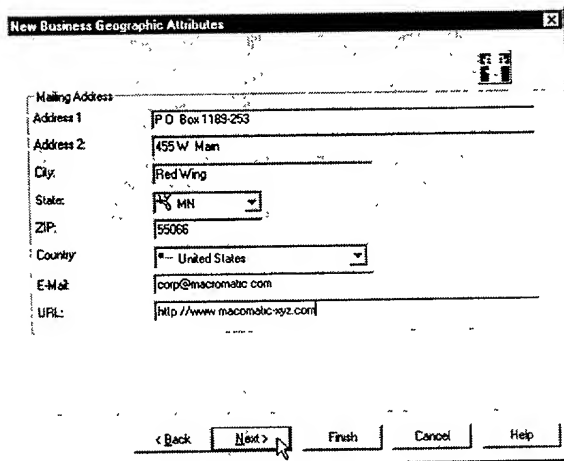


FIG. 80

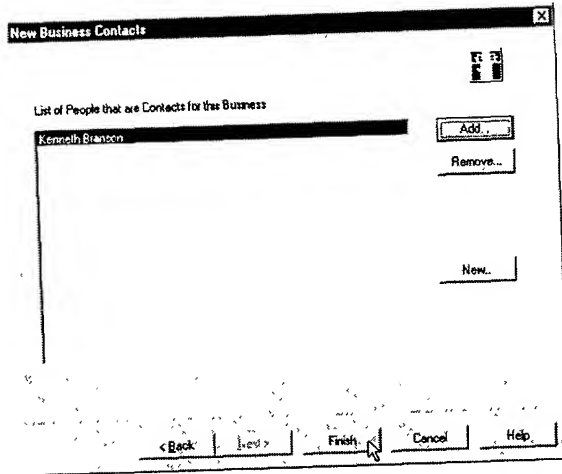


FIG 81

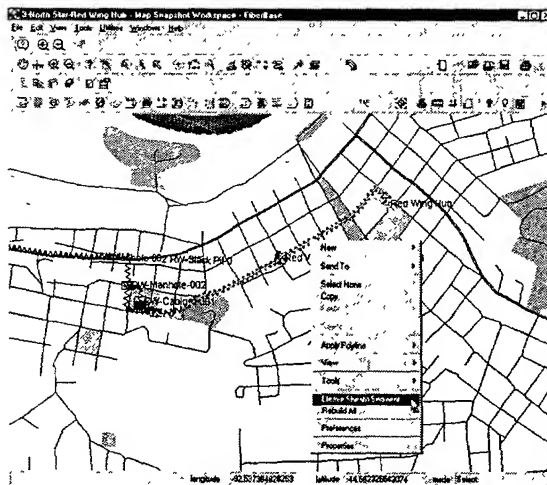


FIG 82

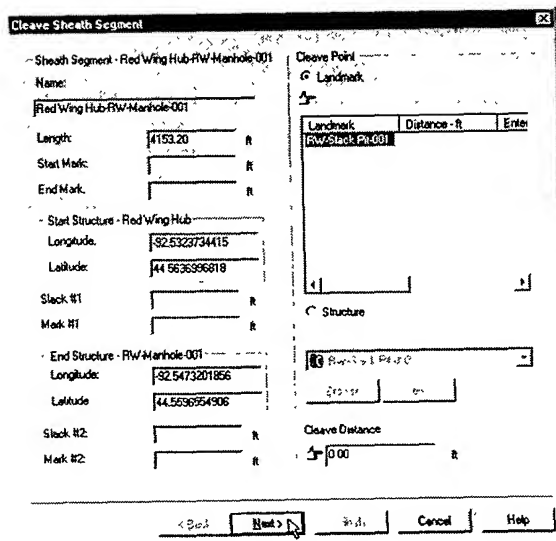


FIG 83

Two Sheath Segments

First Sheath Segment	Second Sheath Segment
Name: Red Wing Hub-RW-Manhole 001	Name: Red Wing Hub-RW-Manhole 001 (2)
Length: 2000 ft	Length: 2153.20 ft
Start Mark: 0 ft	Start Mark: 2000 ft
End Mark: 2000 ft	End Mark: 4153 ft
Start Structure - Red Wing Hub Longitude: -82.5323734415 Latitude: 44.5636999918	Start Structure - RW-Stack Pk-001 Longitude: -82.532339696 Latitude: 44.5616436528
Stack #1: 150 ft	Stack #1: ft
Mark #1: ft	Mark #1: ft
End Structure - RW-Stack Pk-001 Longitude: -82.532239696 Latitude: 44.5616436528	End Structure - RW-Manhole 001 Longitude: -82.5473201856 Latitude: 44.559654906
Stack #2: 150 ft	Stack #2: 150 ft
Mark #2: ft	Mark #2: ft

< Back Next > Finish Cancel Help

FIG. 84

Choose Conductors to Cleave

Sheath Segment	Conductors
Red Wing Hub-RW-Manhole	2-ORN 3-GRN
Buffer 1	4-BRN 5-SLA
Buffer 2	
Buffer 3	
1-BLU	
2-ORN	
3-GRN	
4-BRN	
5-SLA	
6-WHT	
7-RED	
8-BLK	
9-YEL	
10-VIO	
11-RDS	
12-AQU	
Buffer 4	

< Back <> Finish Cancel Help

FIG. 85

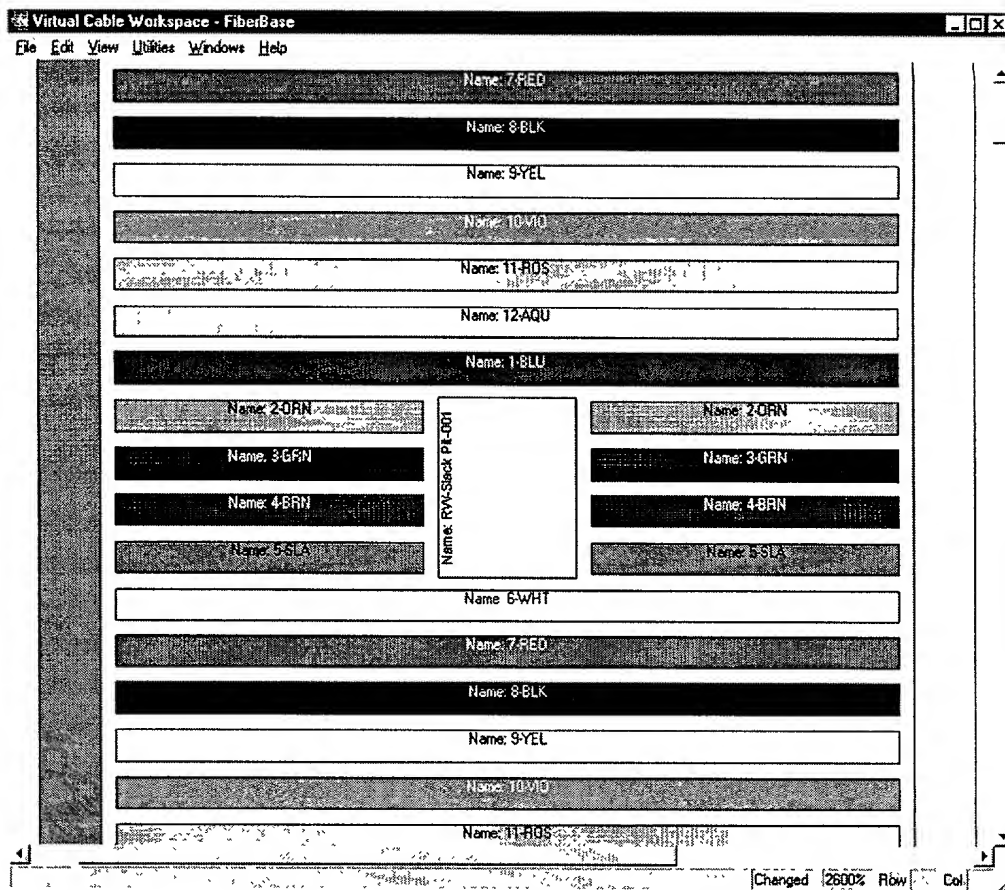


FIG 86

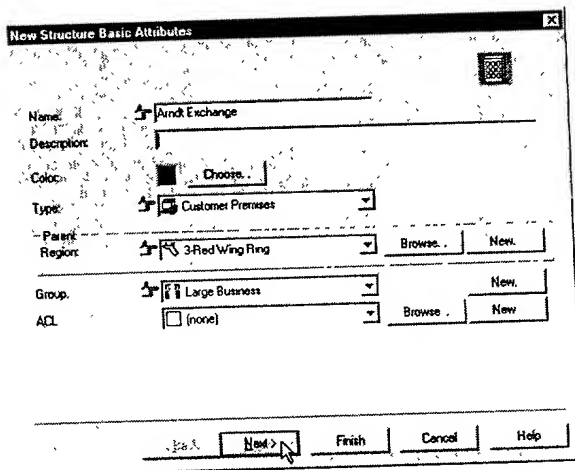
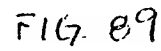
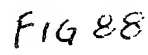


FIG 87



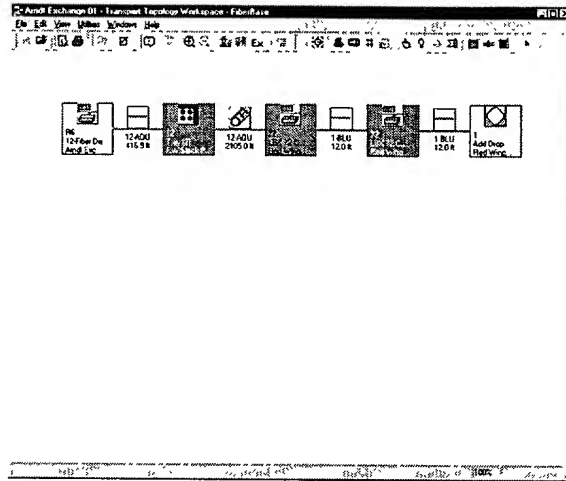


FIG 90

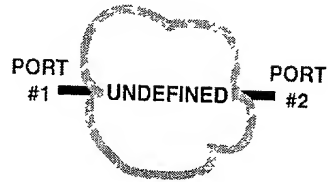


FIG 91

10005219-130401

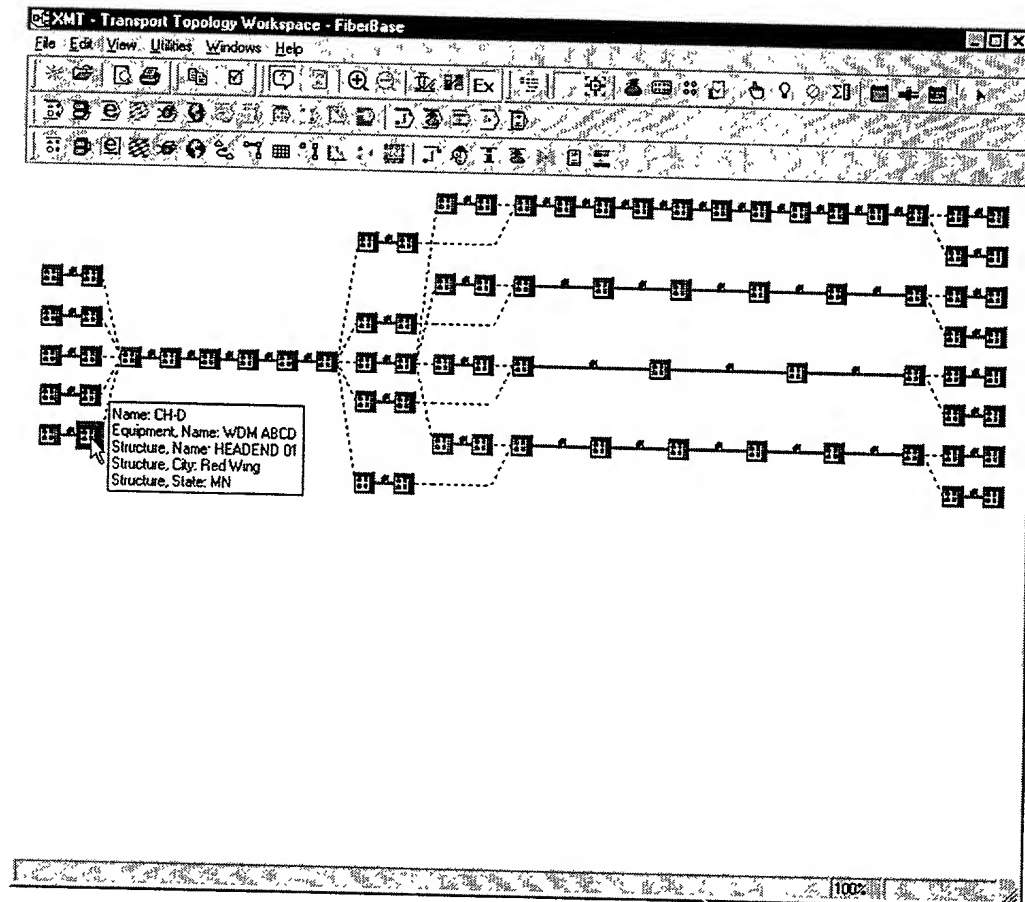


FIG. 92

1005219-120401

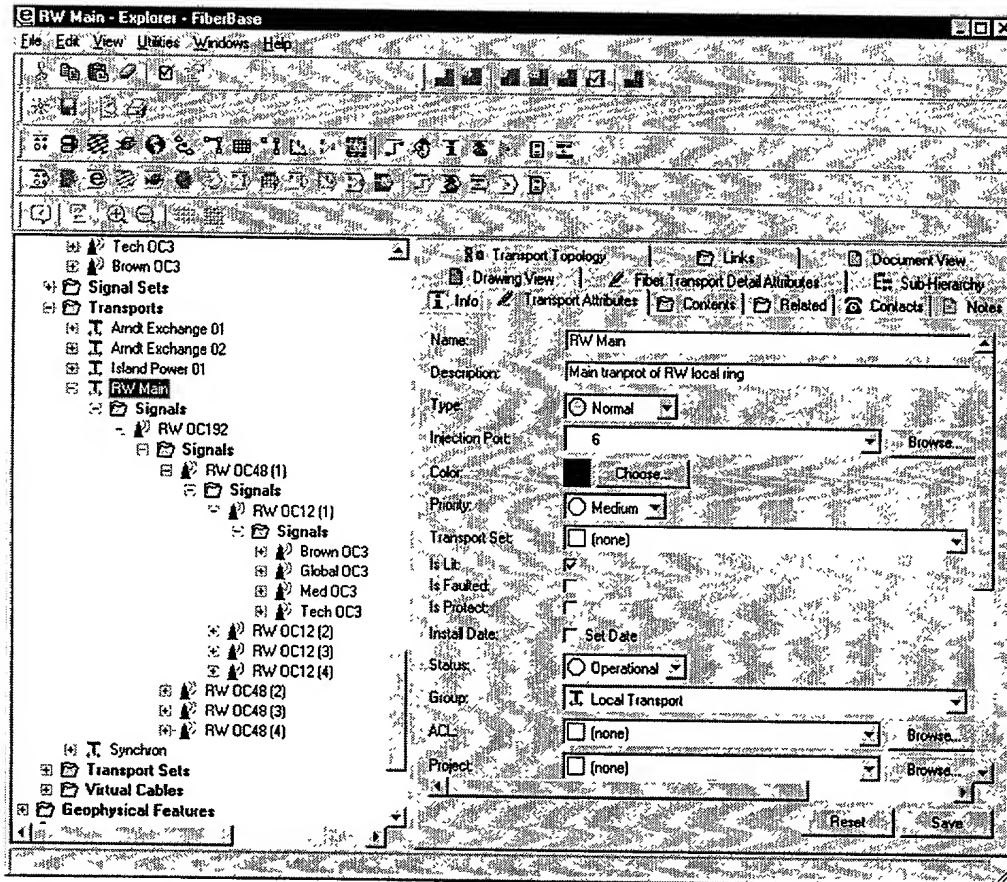


FIG 93

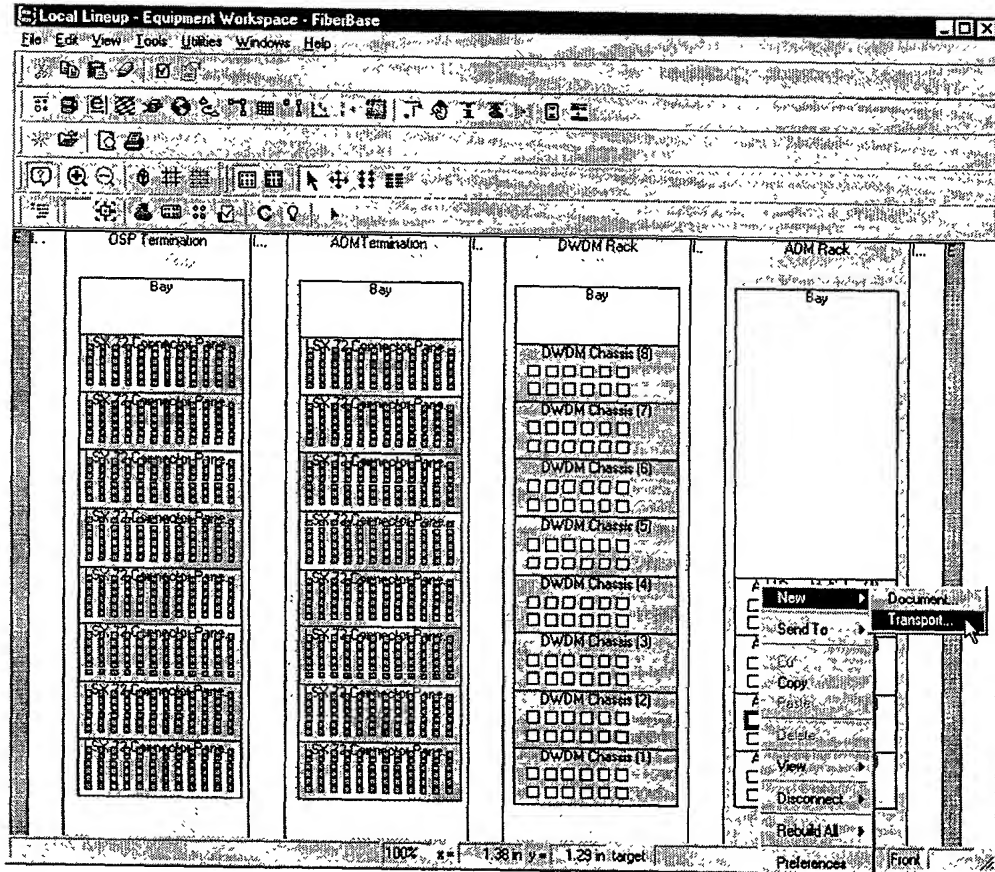
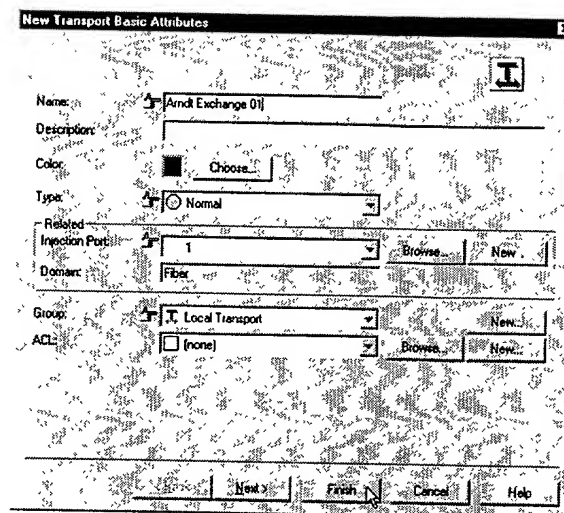


FIG. 94



New Transport Basic Attributes

Name: [Amid Exchange 01]

Description:

Color: [Choose...]

Type: [Normal]

Related Injection Port: [1] [Browse] [New...]

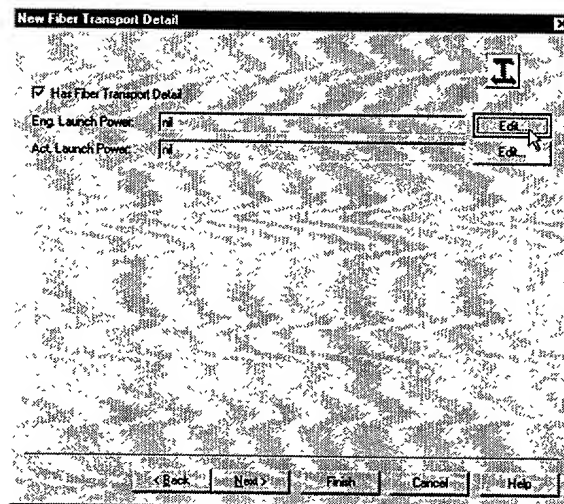
Diameter: [Fiber]

Group: [Local Transport] [New...]

ACL: [none] [Browse] [New...]

[New] [Finish] [Cancel] [Help]

FIG 95



New Fiber Transport Detail

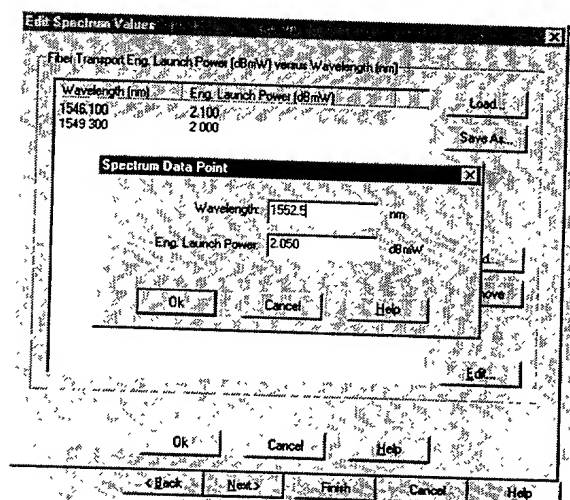
☒ Has Fiber Transport Detail

Eng. Launch Power: [m] [Edit...]

Act. Launch Power: [m] [Edit...]

[Back] [Next] [Finish] [Cancel] [Help]

FIG 96



Edit Spectrum Values

Fiber Transport Eng. Launch Power (dBmW) versus Wavelength (nm)

Wavelength (nm)	Eng. Launch Power (dBmW)
1546.100	2.100
1549.300	2.000

[Load] [Save As...]

Spectrum Data Point

Wavelength: [1552.9] nm

Eng. Launch Power: [2.050] dBmW

[Ok] [Cancel] [Help]

[Back] [Next] [Finish] [Cancel] [Help]

FIG 97

10005949-120401

New Transport Inventory Attributes

Ownership

Assigned To: ☒ Arndt Exchange Browse... New...

Leased To: ☐ (none) Browse... New...

Owned By: ☐ (none) Browse... New...

Physical

☒ Is Lit

☐ Is Faulted

☐ Is Protect

Set Install Date: 9/27/2001

Transport Set

☐ (none) Browse... New...

< Back Finish Cancel Help

FIG 98

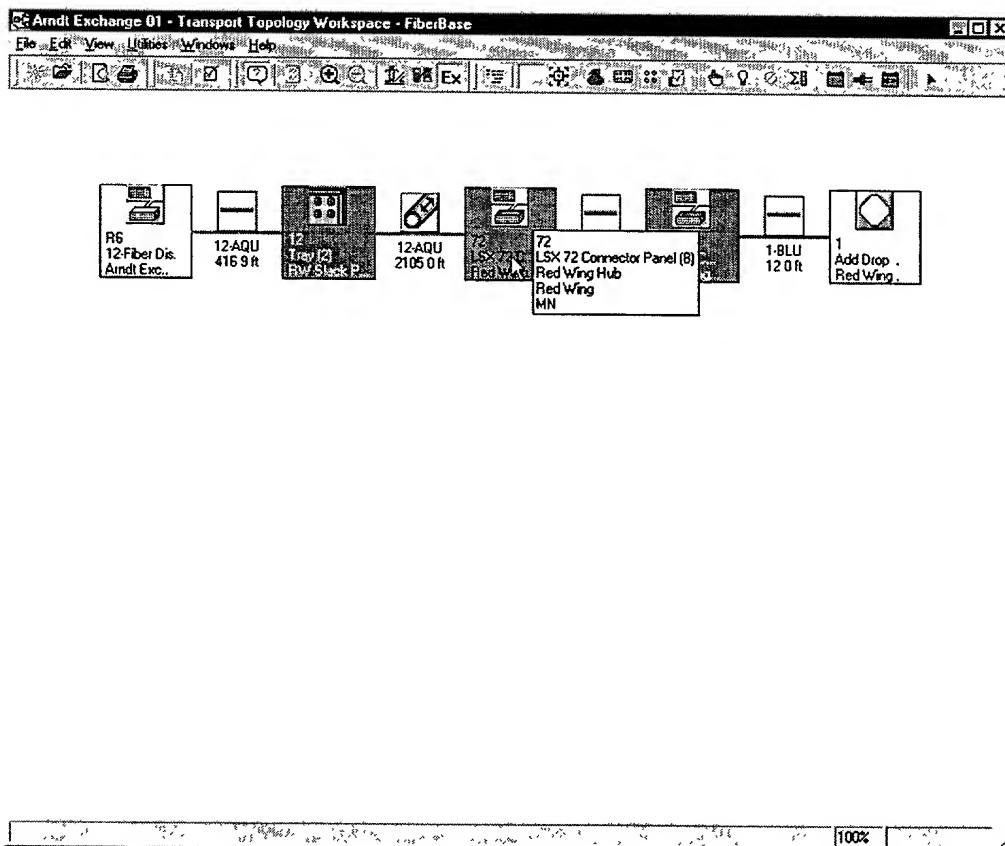


FIG 99

1005219-1-0401

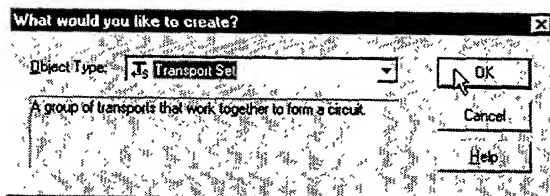


FIG 100

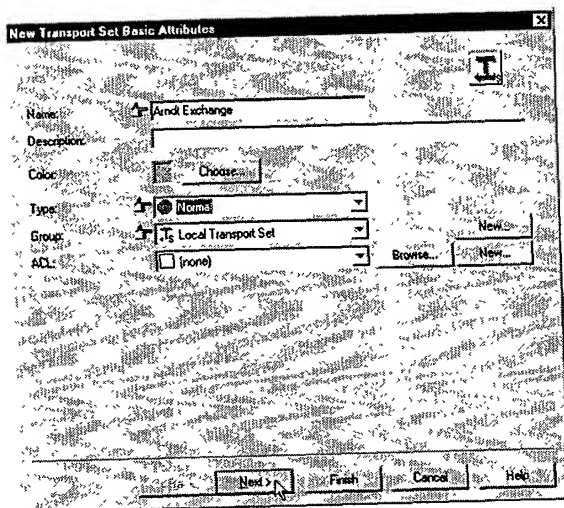


FIG 101

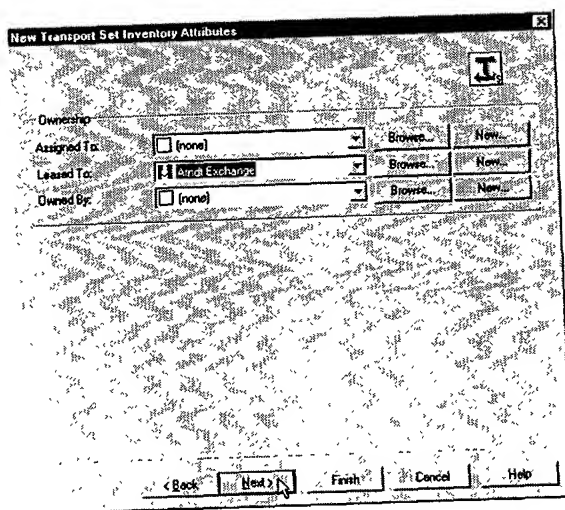


FIG 102

100519-120401
FOUO

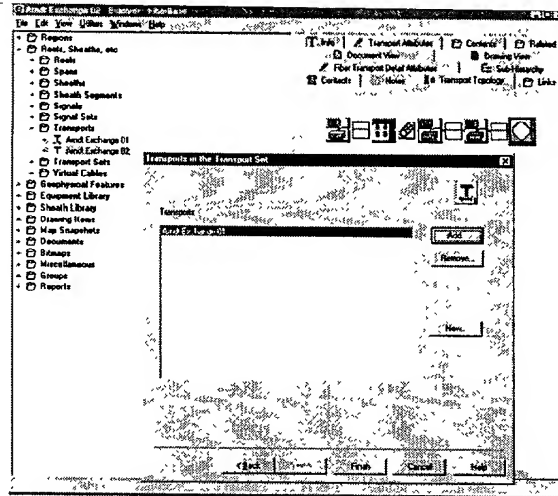


FIG 103

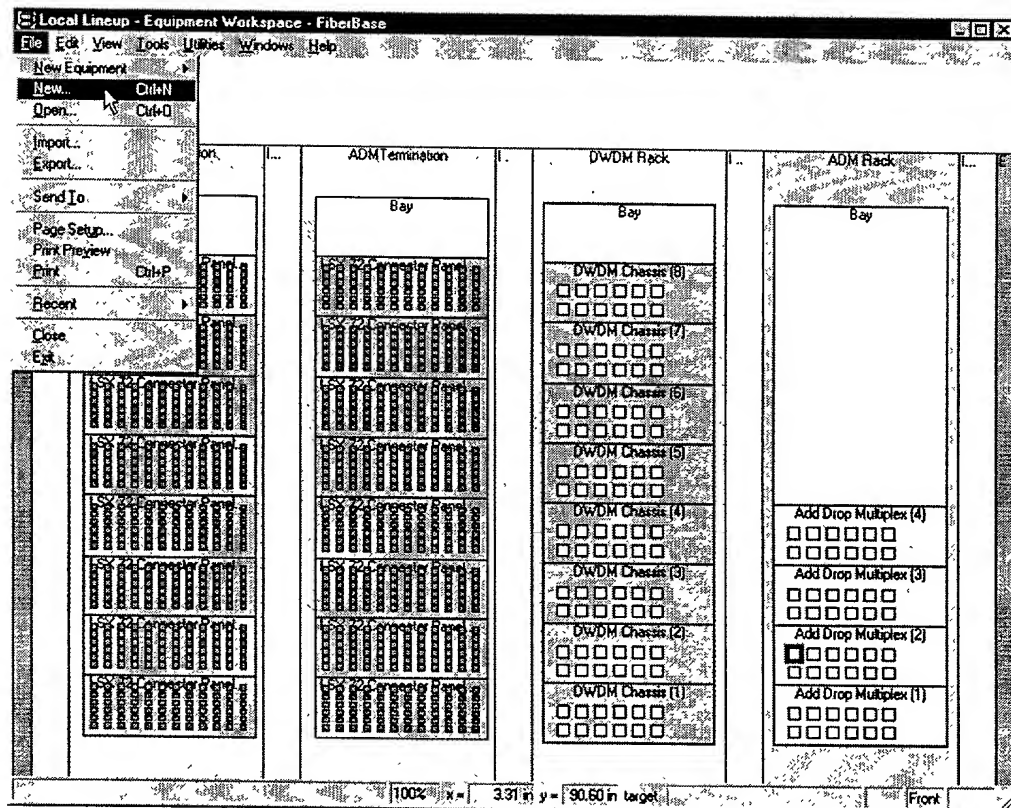


FIG 104

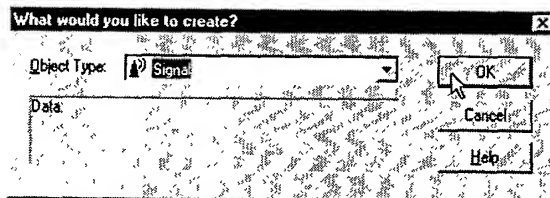


FIG 105

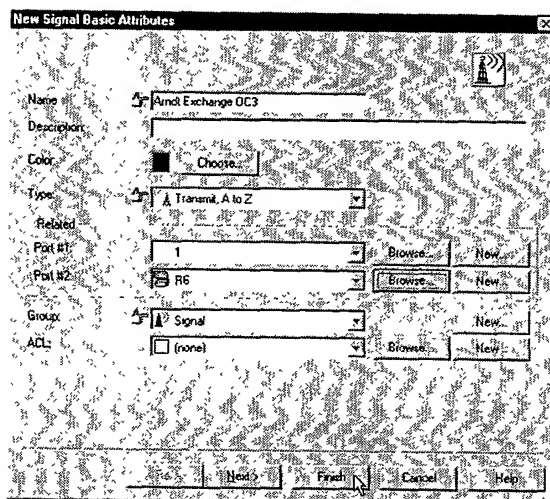


FIG. 106

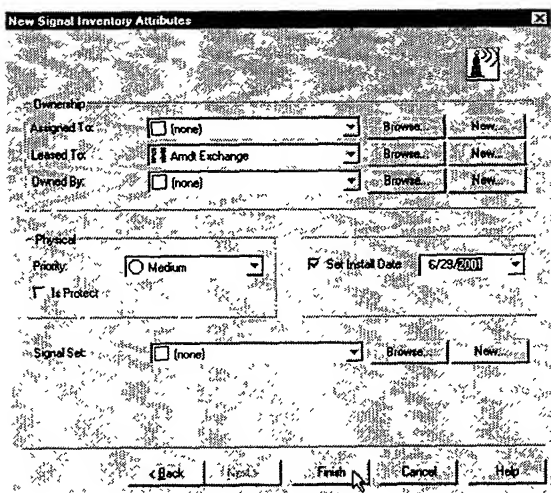


FIG. 107

1000519-1204021

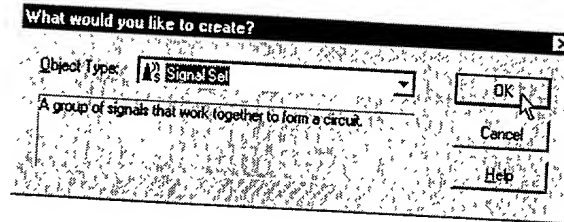


FIG 108

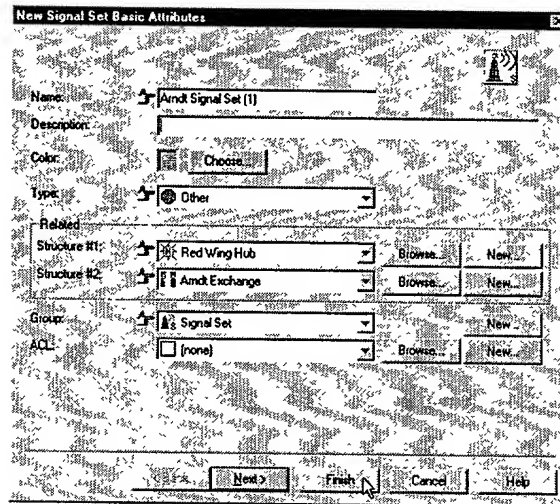


FIG 109

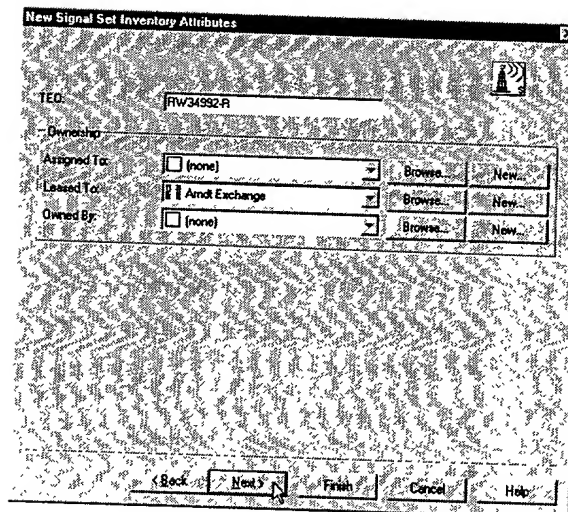


FIG 110

10005219-120401

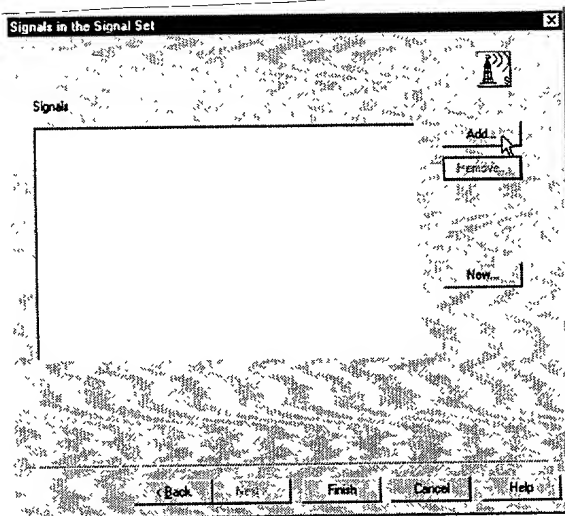


FIG. 111

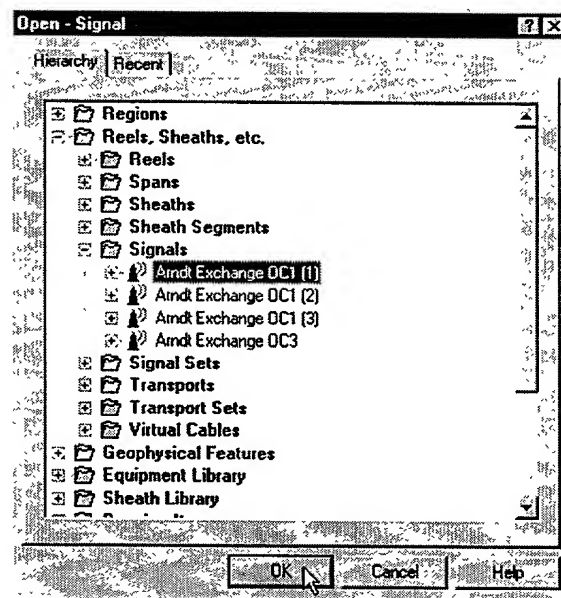


FIG. 112

FIG. 111

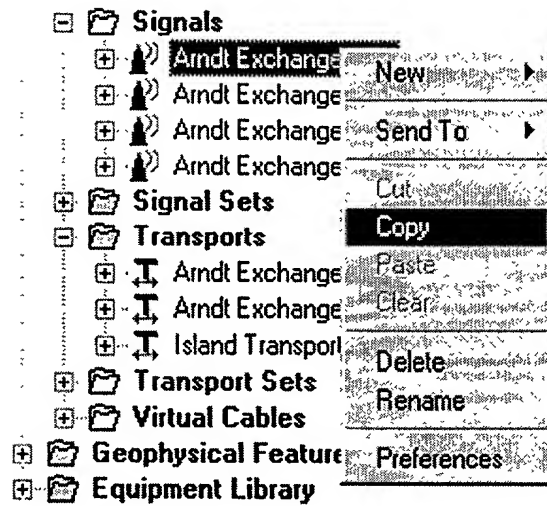


FIG 113

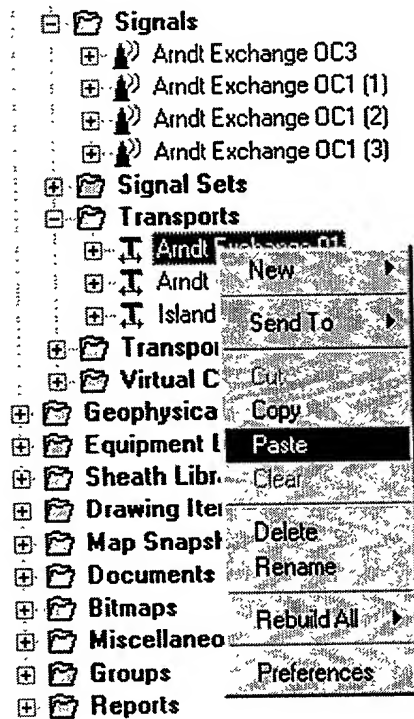


FIG 114

10005219-120401

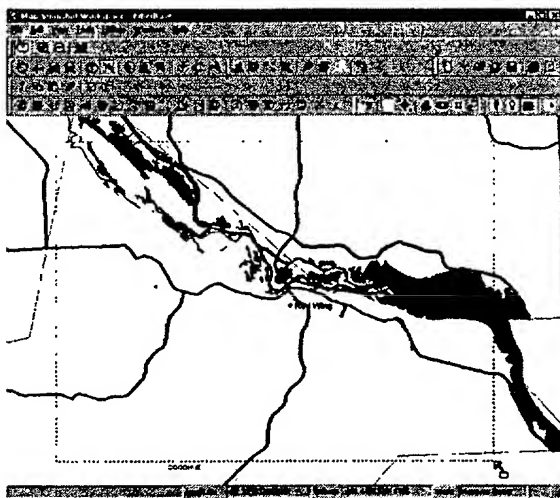


FIG 115

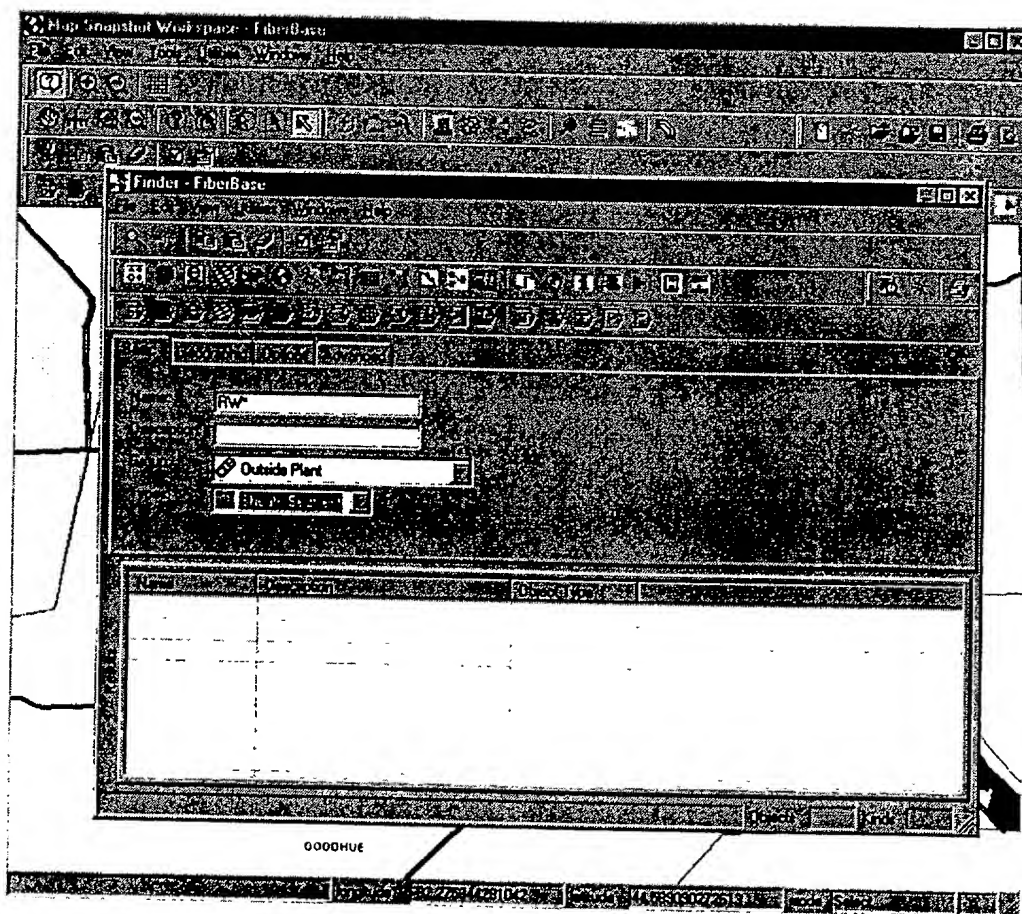


FIG 116

1000519-120401

A screenshot of a software window with tabs labeled 'Basic', 'Geographic', 'Options', and 'Advanced'. The 'Basic' tab is active. It contains a list of four values: 32, 45, 91, and 44, each in its own input field. There is a 'Find' button on the right side of the window.

FIG. 117

A screenshot of a software window with tabs labeled 'Basic', 'Geographic', 'Options', and 'Advanced'. The 'Basic' tab is active. It contains a single input field with the value 100. There are 'OK' and 'Cancel' buttons at the bottom right of the window.

FIG 118

A screenshot of a software window with tabs labeled 'Basic', 'Geographic', 'Options', and 'Advanced'. The 'Basic' tab is active. It contains a table with the following data:

Object Type	Include	Filter
<input checked="" type="checkbox"/> Redun	Yes	(name = Red Wi..
<input type="checkbox"/> Route	No	
<input type="checkbox"/> Route Seg..	No	
<input type="checkbox"/> Sheath	No	
<input type="checkbox"/> Sheath Se...	No	
<input type="checkbox"/> Span	No	
<input checked="" type="checkbox"/> Structure	Yes	(install_date >= ...

FIG 119

10005219-120401

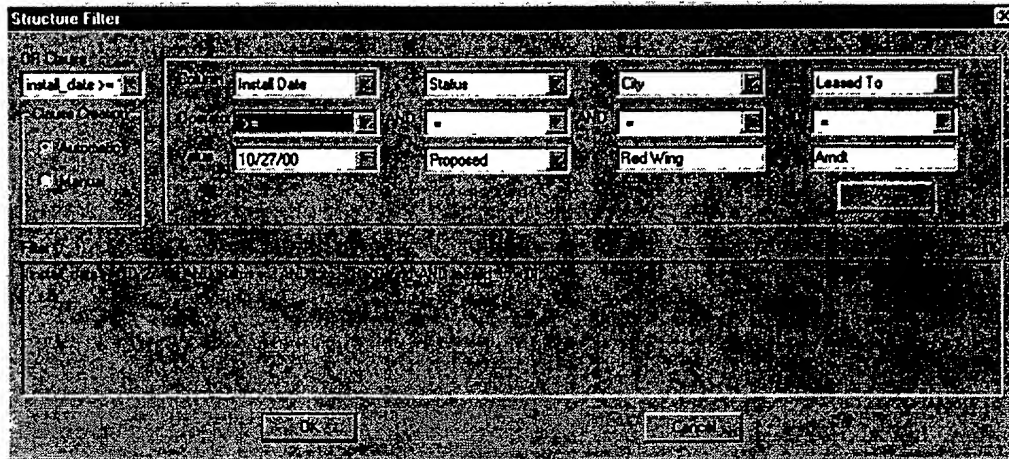


FIG. 120

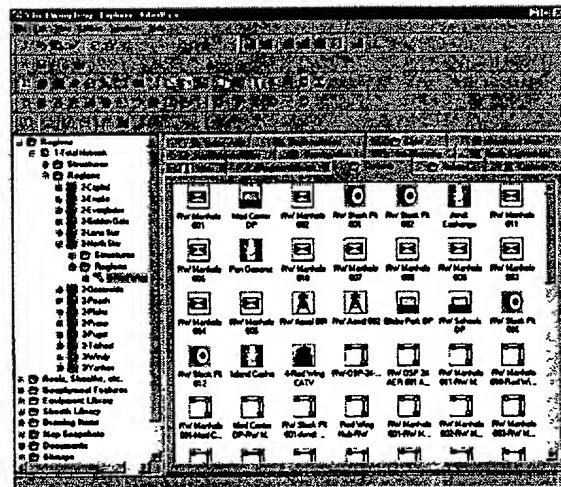


FIG. 121

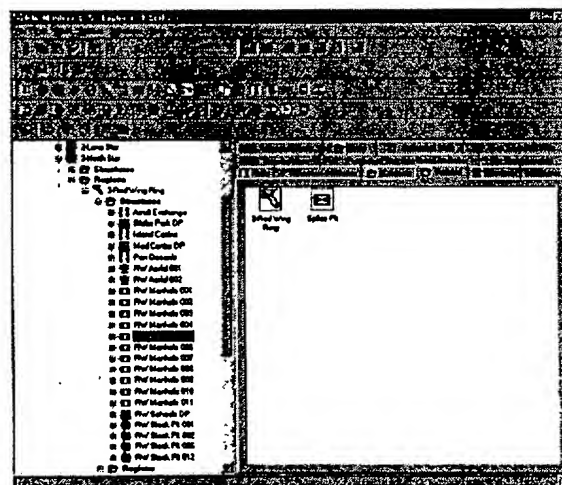
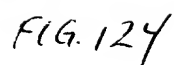
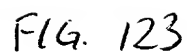


FIG. 122



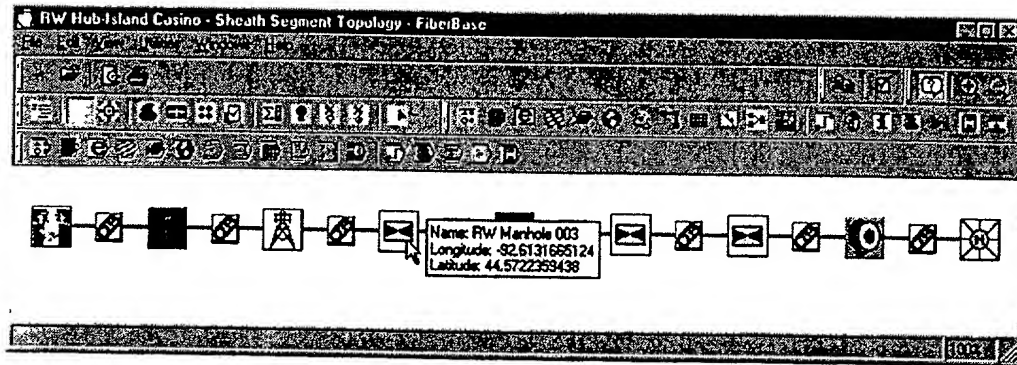


FIG 125

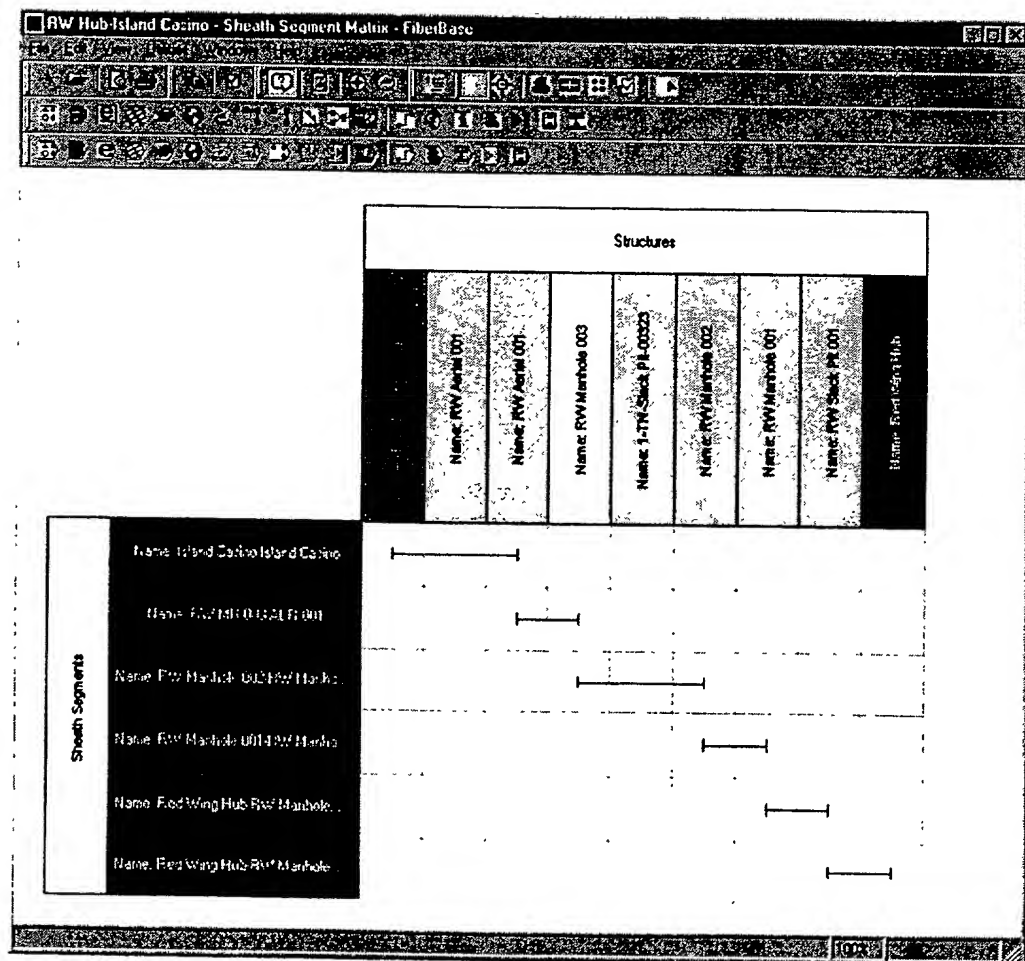


FIG 126

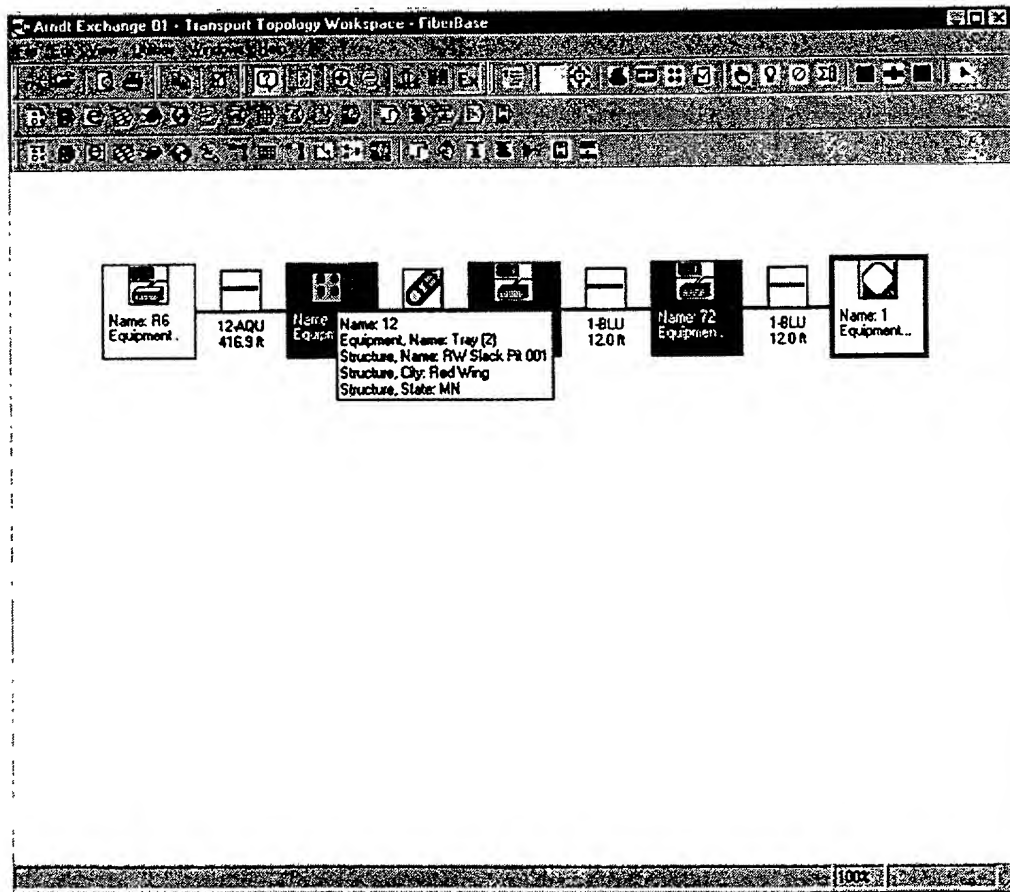


FIG 127

FIG 127

50

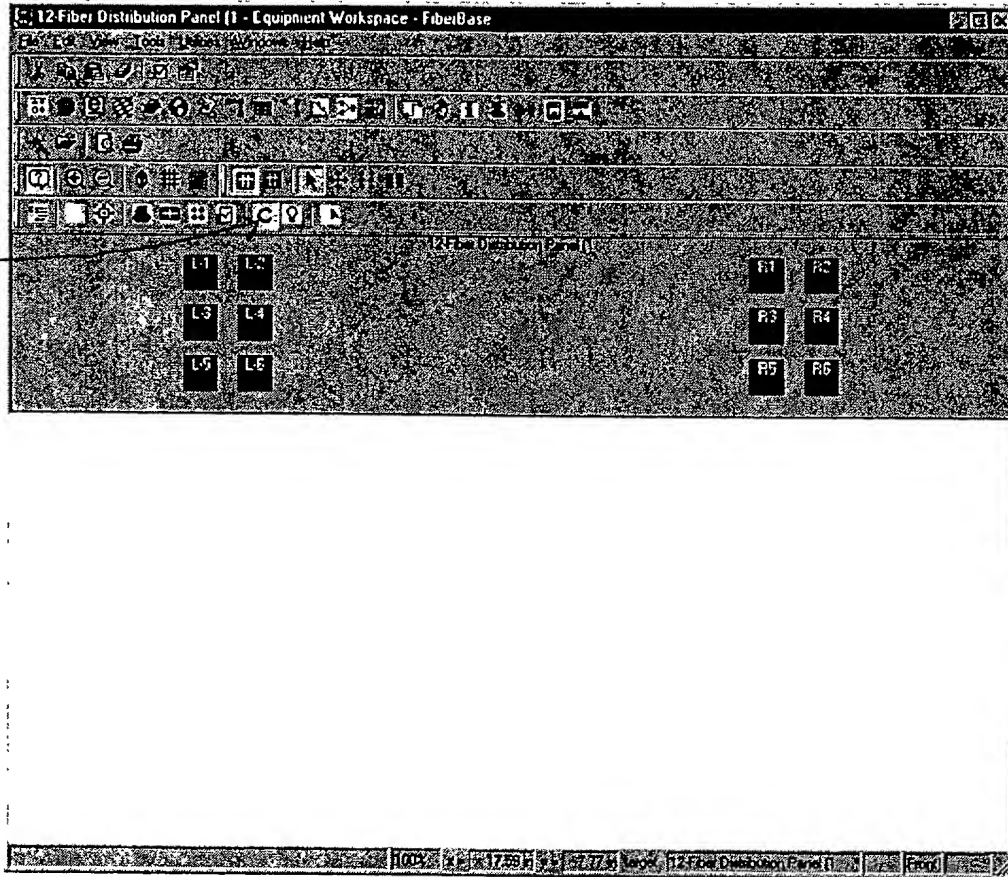


FIG 12E

FIG 12E - 100% 17.59 17.77 Good

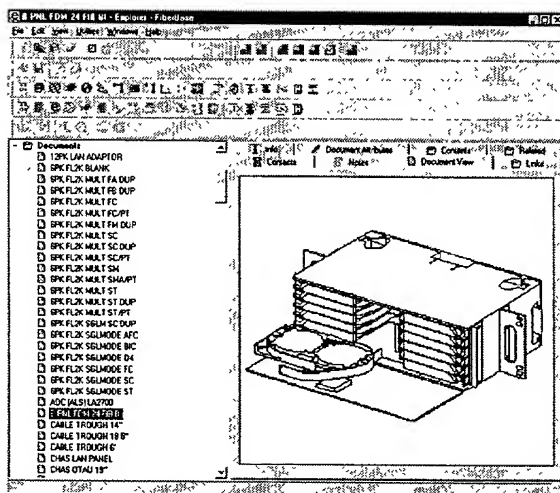


FIG 129

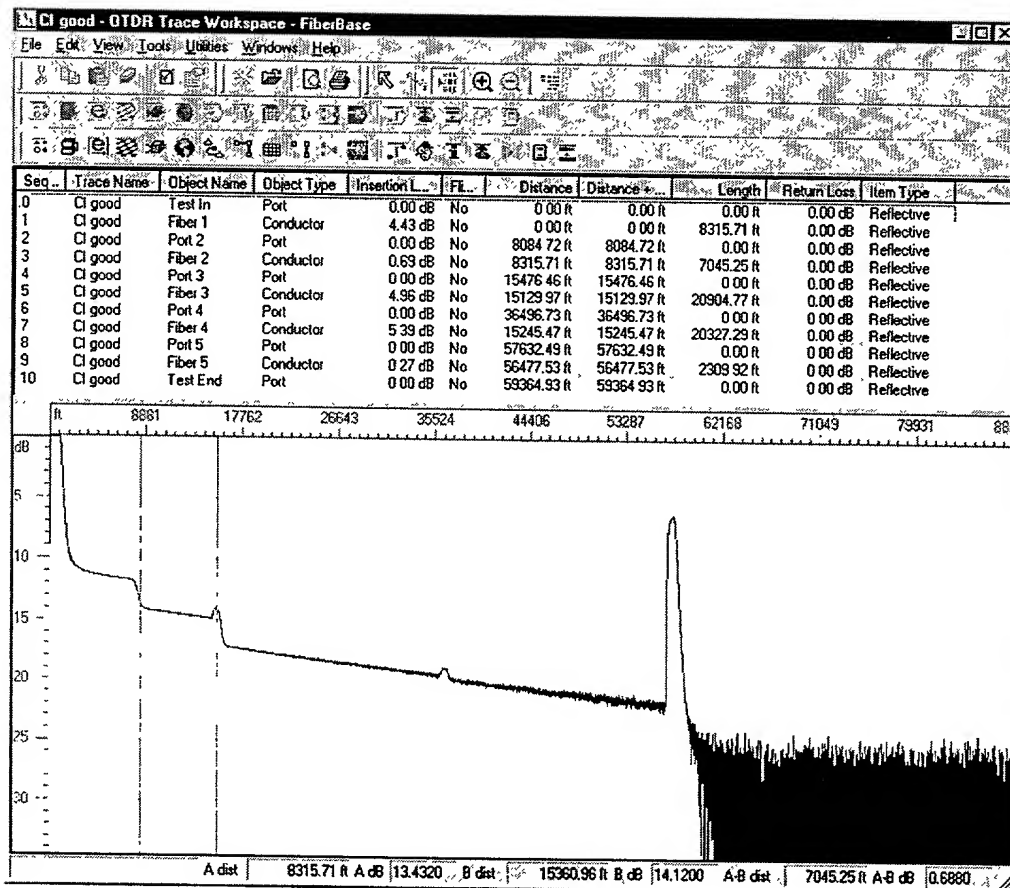
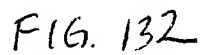
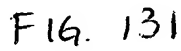


FIG 130



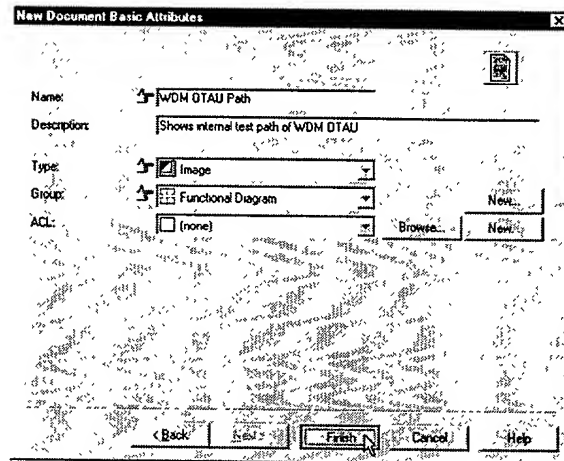


FIG 133

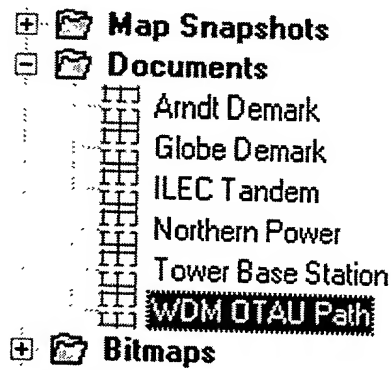


FIG. 134

1000549-120401

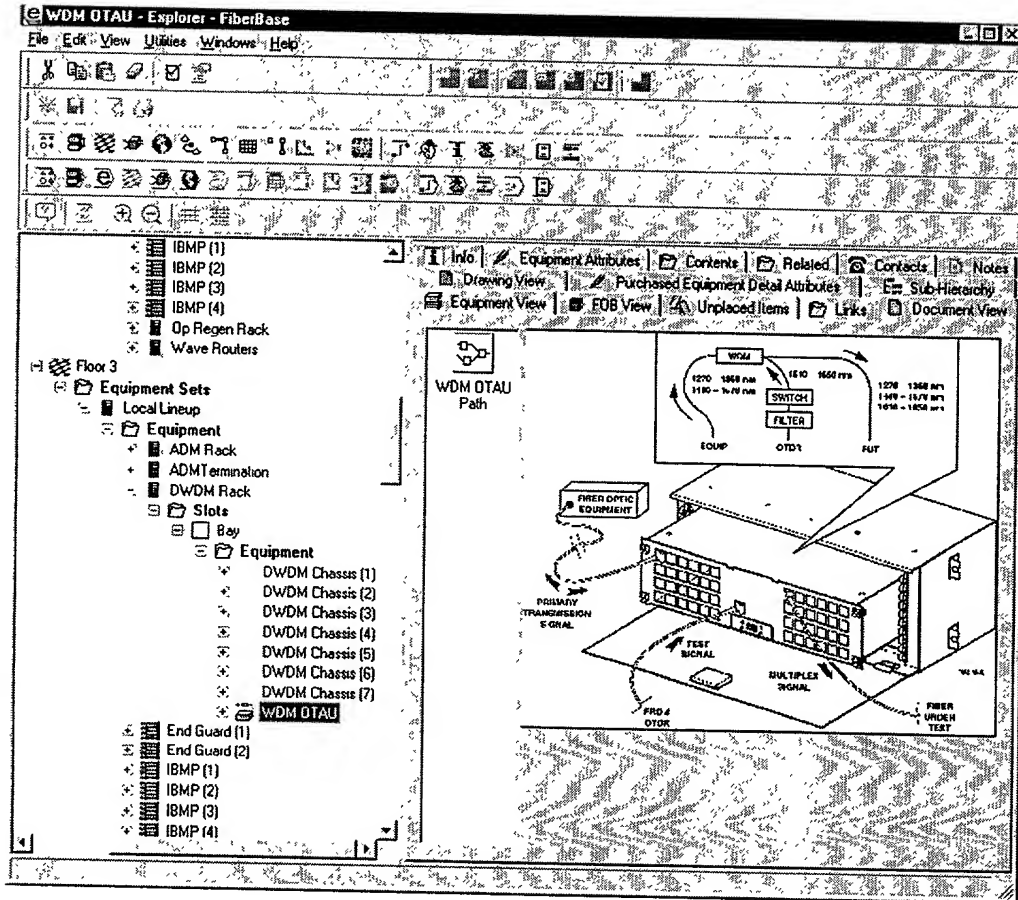


FIG. 135

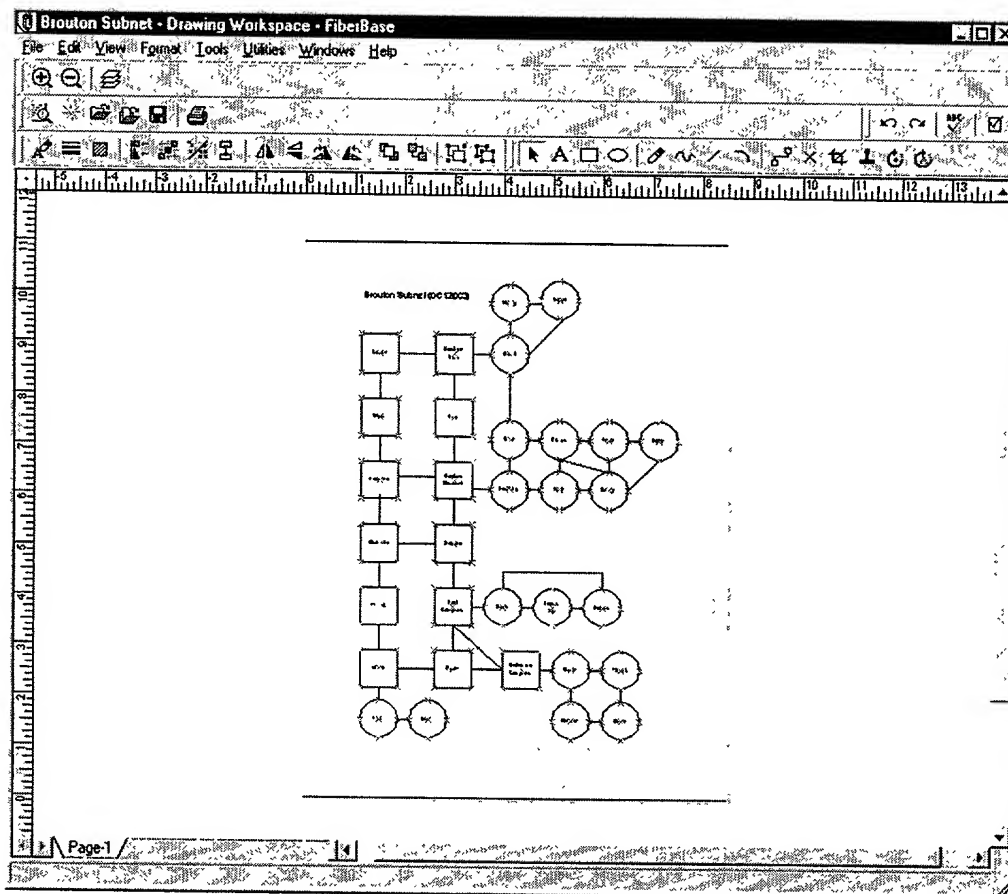


FIG 136

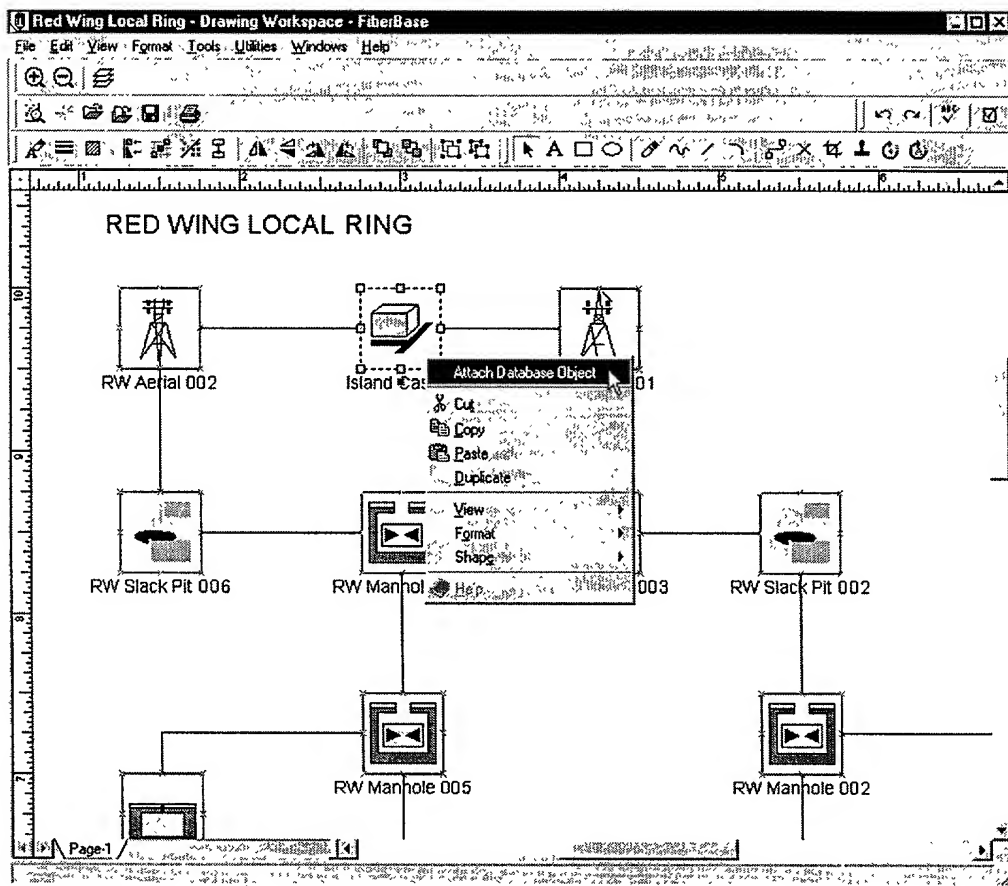


FIG 137

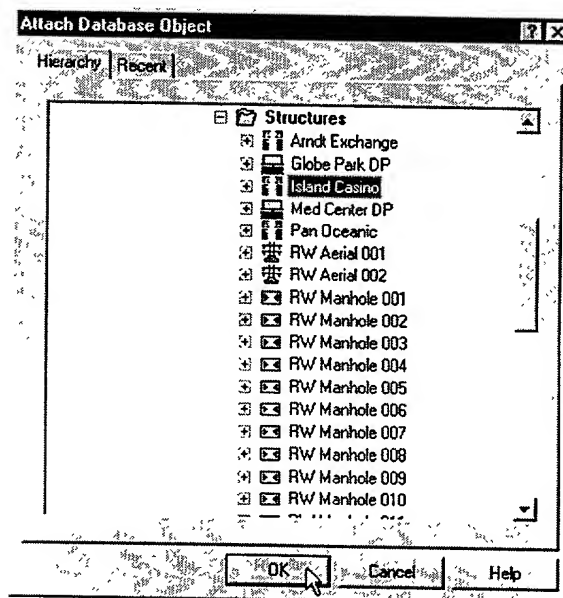


FIG 138

FIG 137

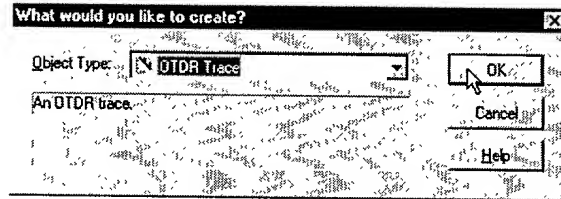


FIG. 139

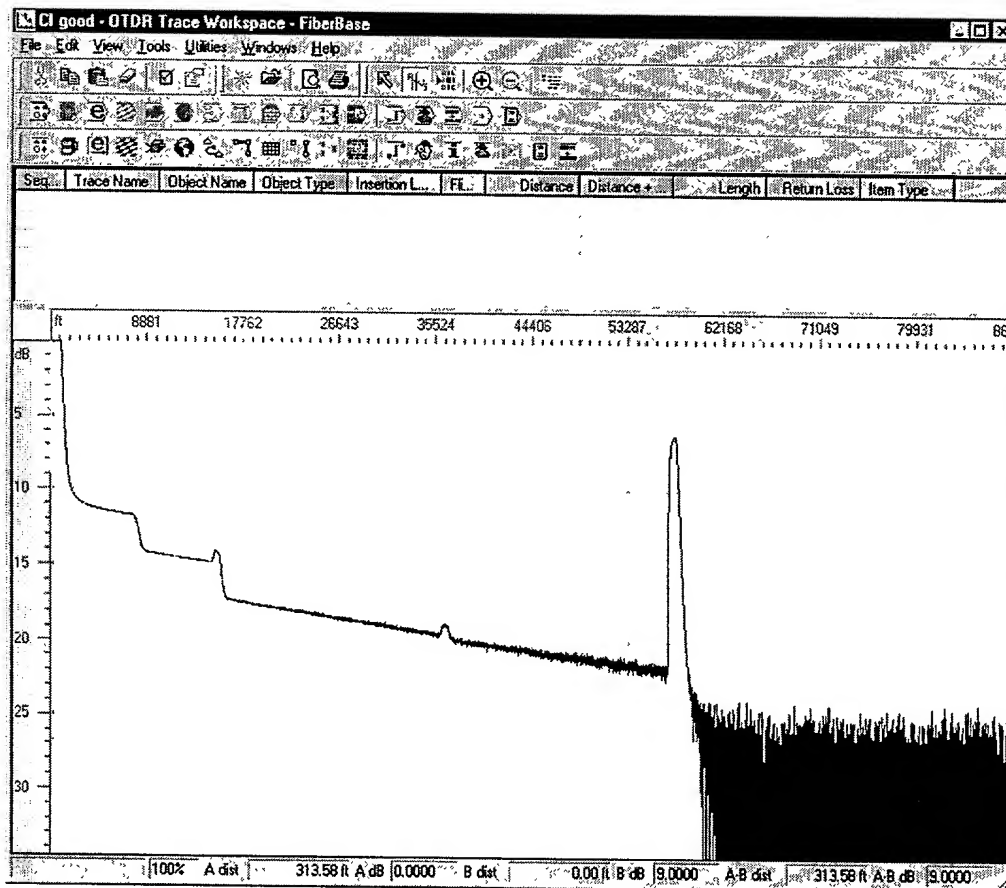


FIG 140

FOOT = 6T5001

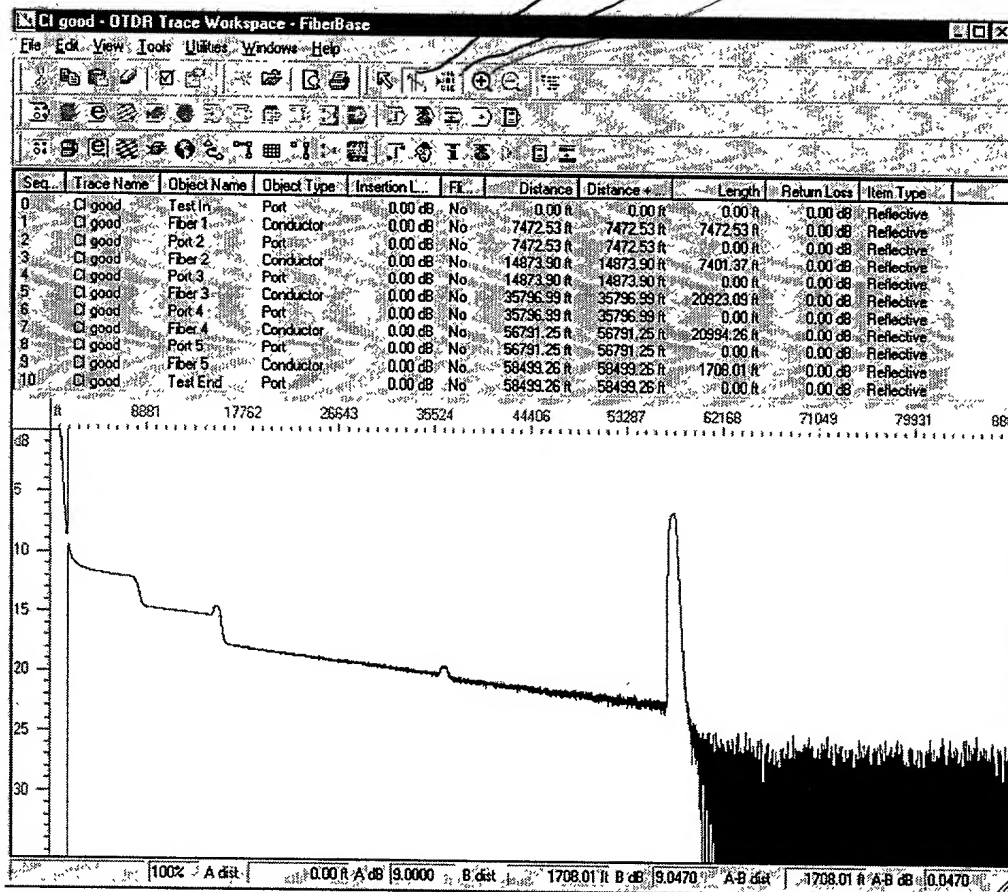


Fig. 141

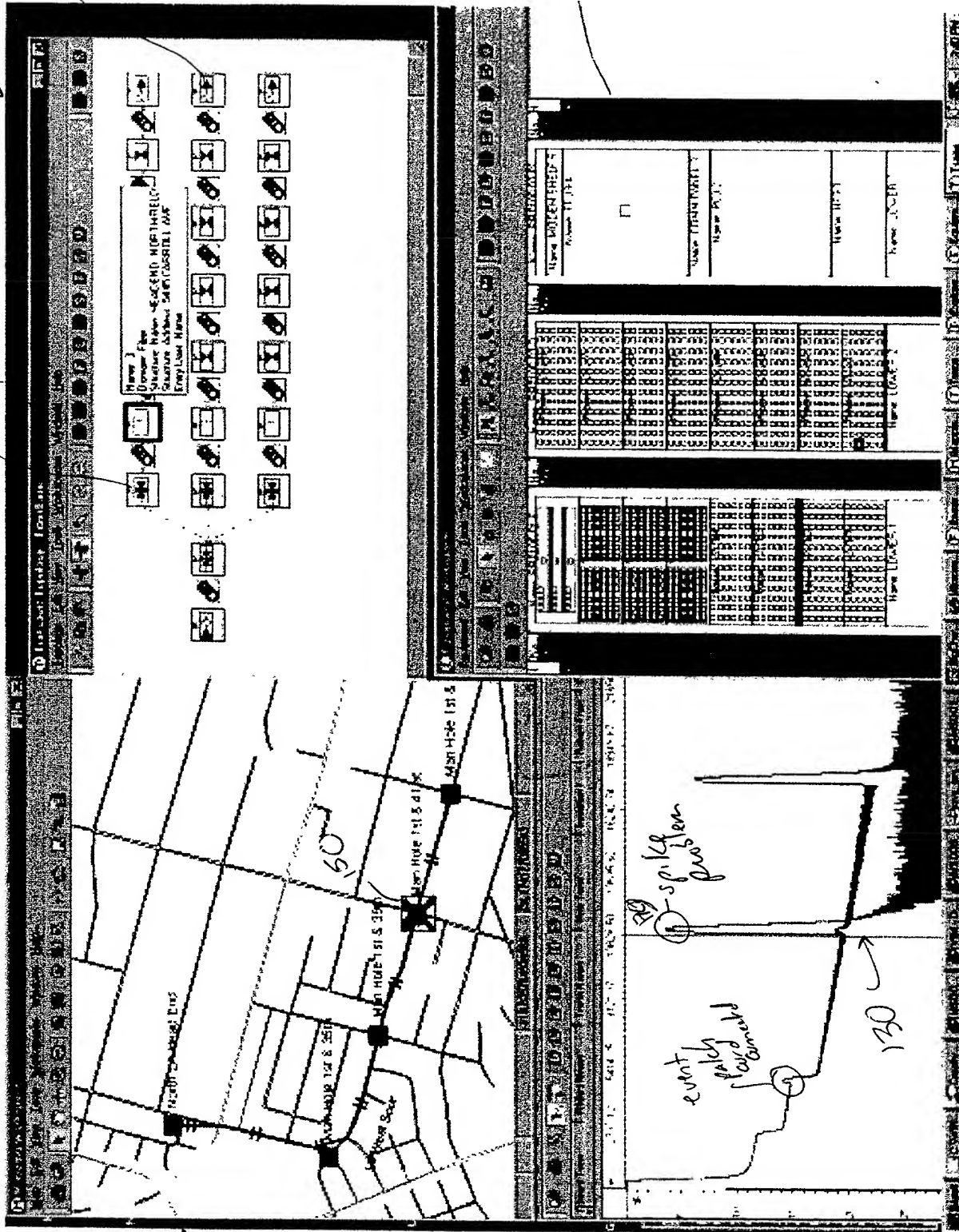


FIG. 142

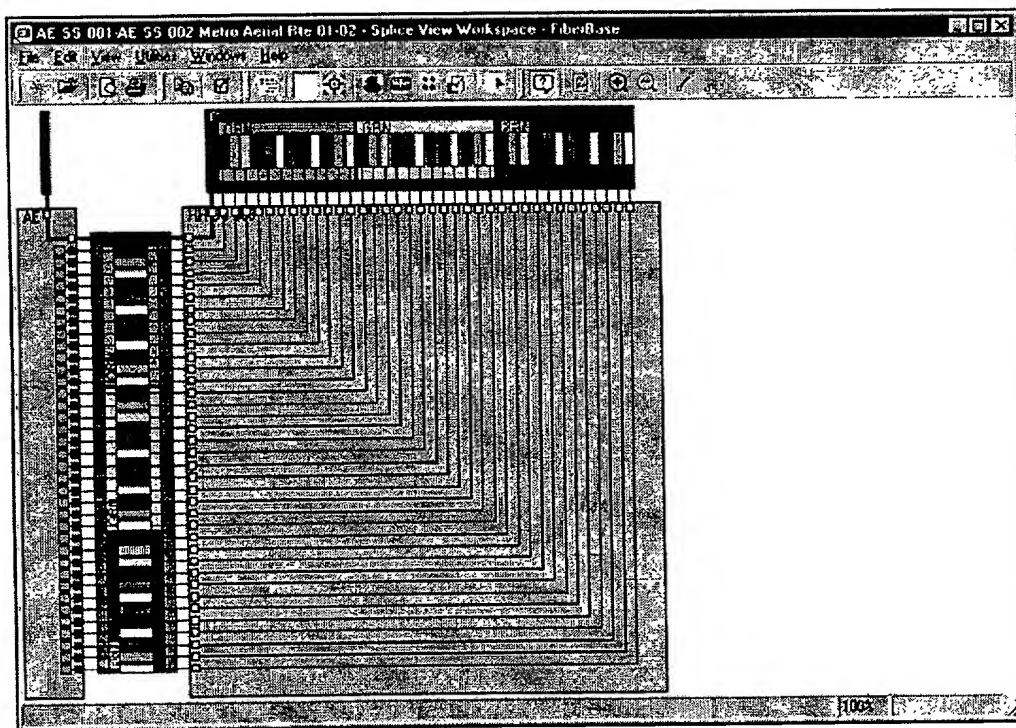


FIG. 143

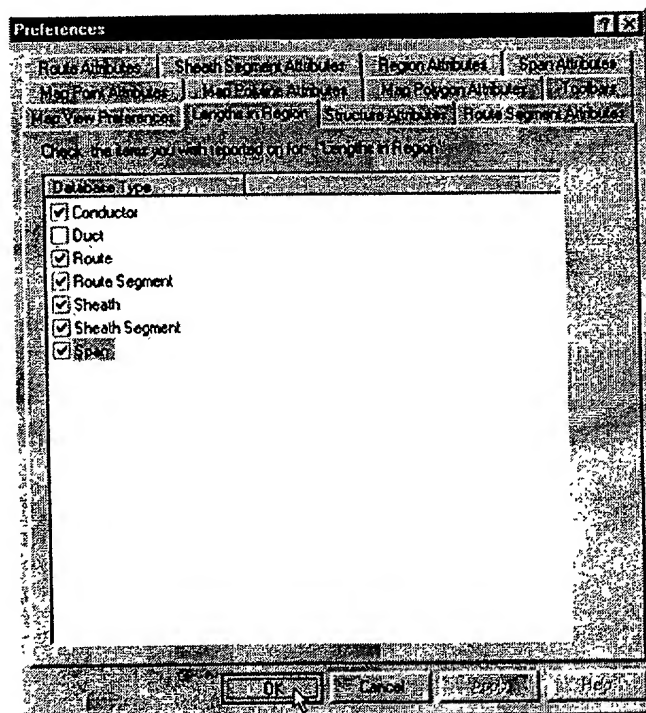


FIG. 144

FIG. 143

Lengths in Region Douglas

DB Type	Number	All in Region	Partial in Reg
Route Segment	7	5	2
Duct	28	20	8
Sheath Segment	7	5	2
Sheath	7	5	2
Conductor	1008	720	288

OK Cancel Help

F16.145

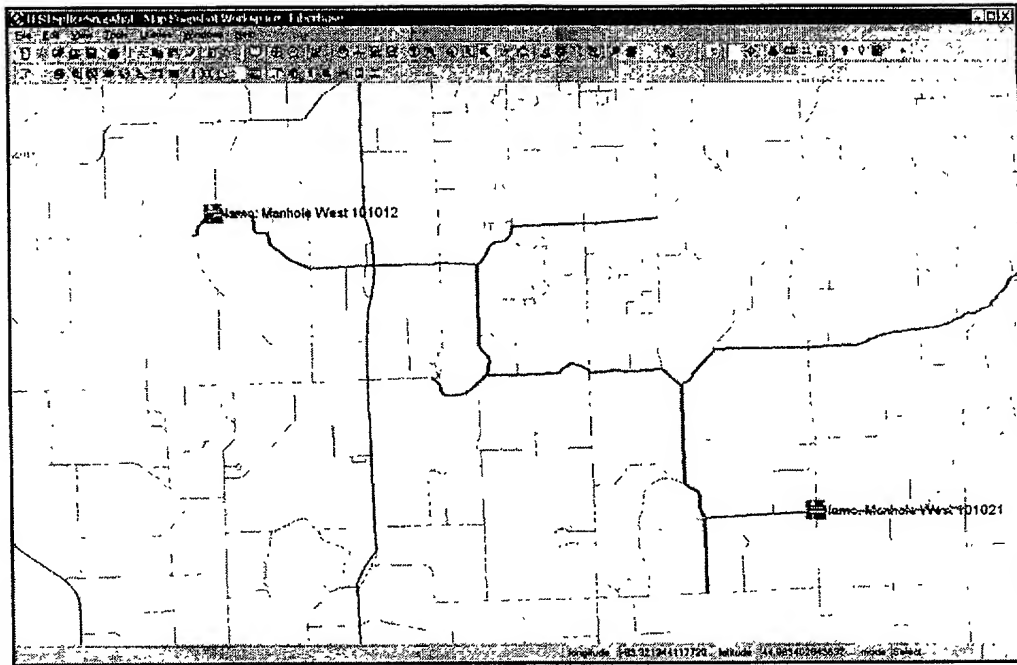


FIG. 146

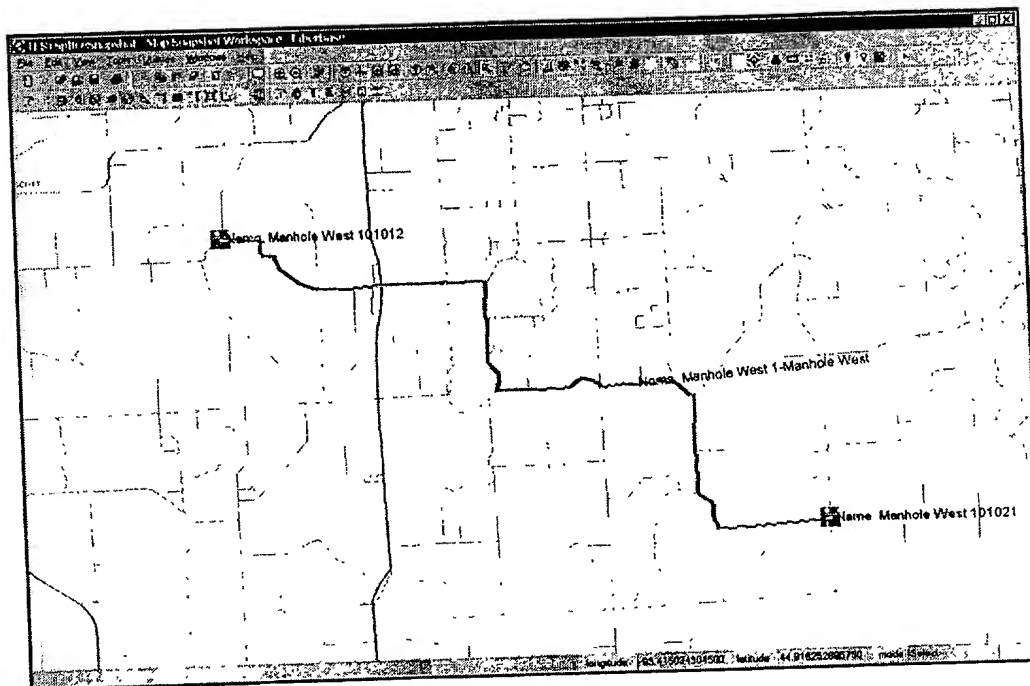
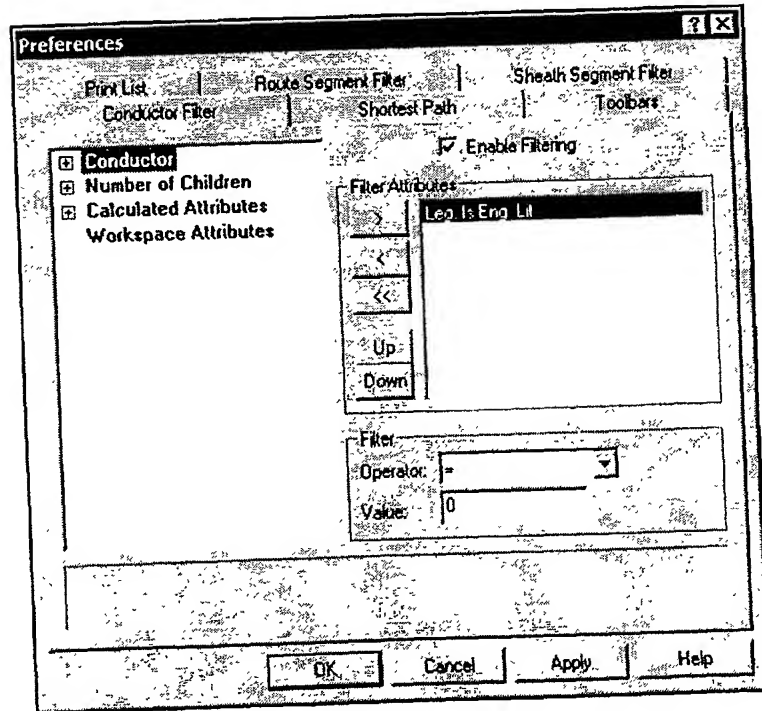
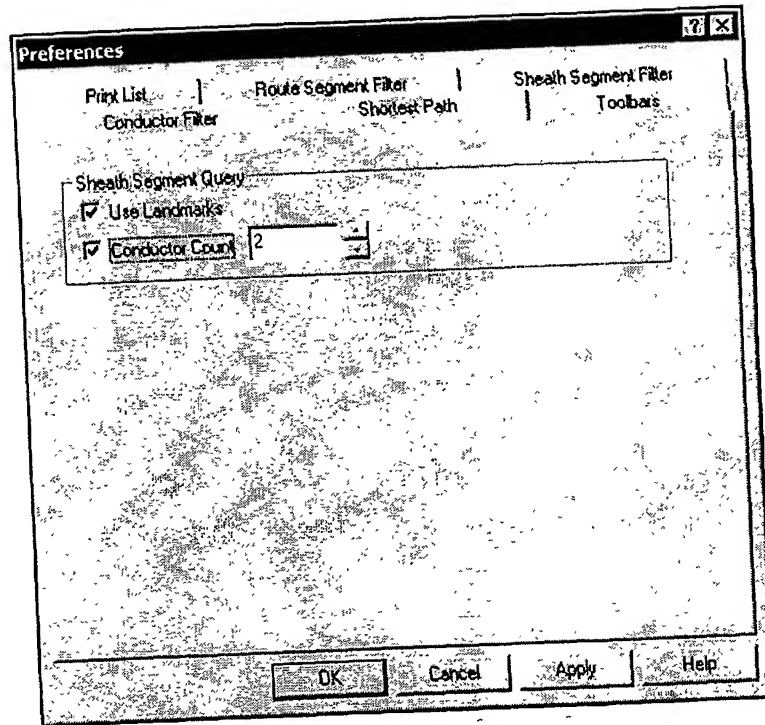


FIG. 147

10005219-120401



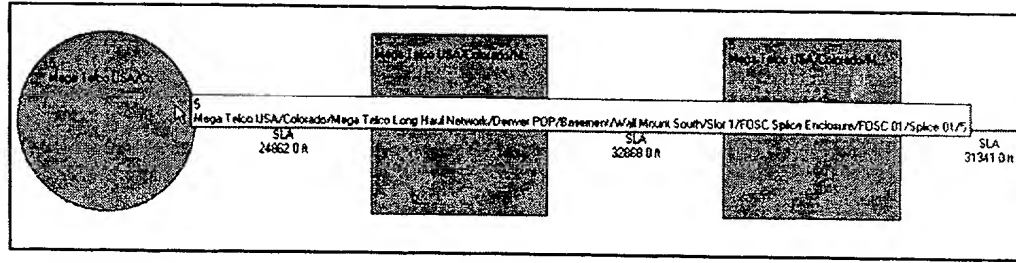


FIG. 150

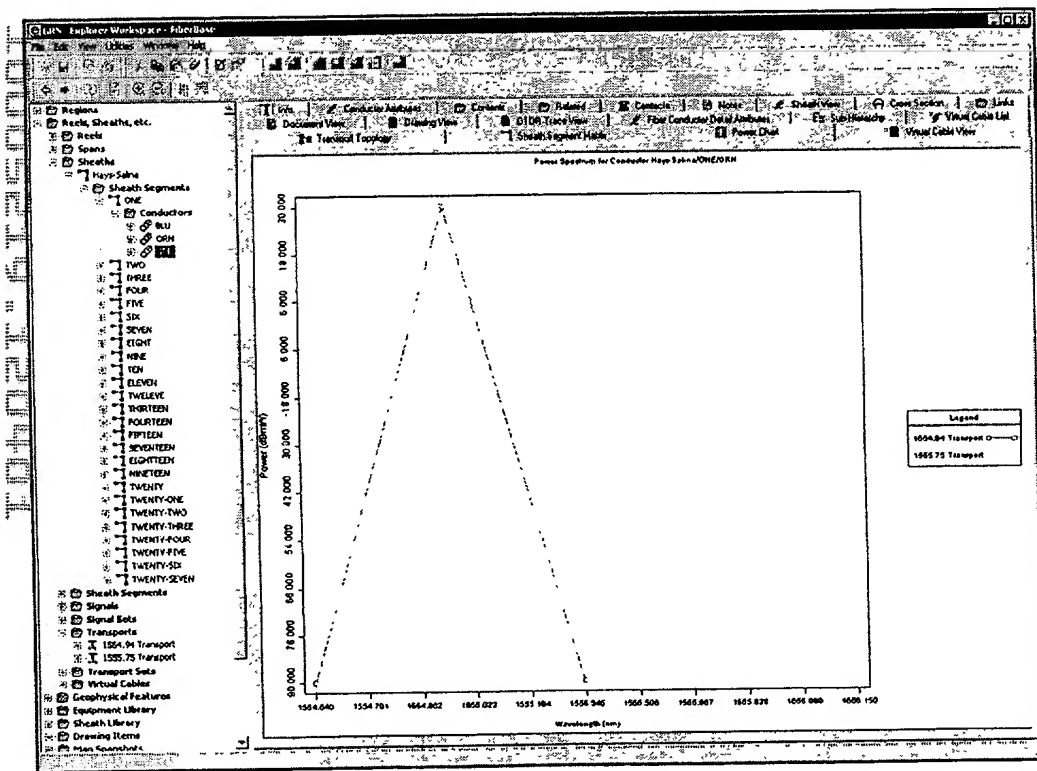


FIG 151

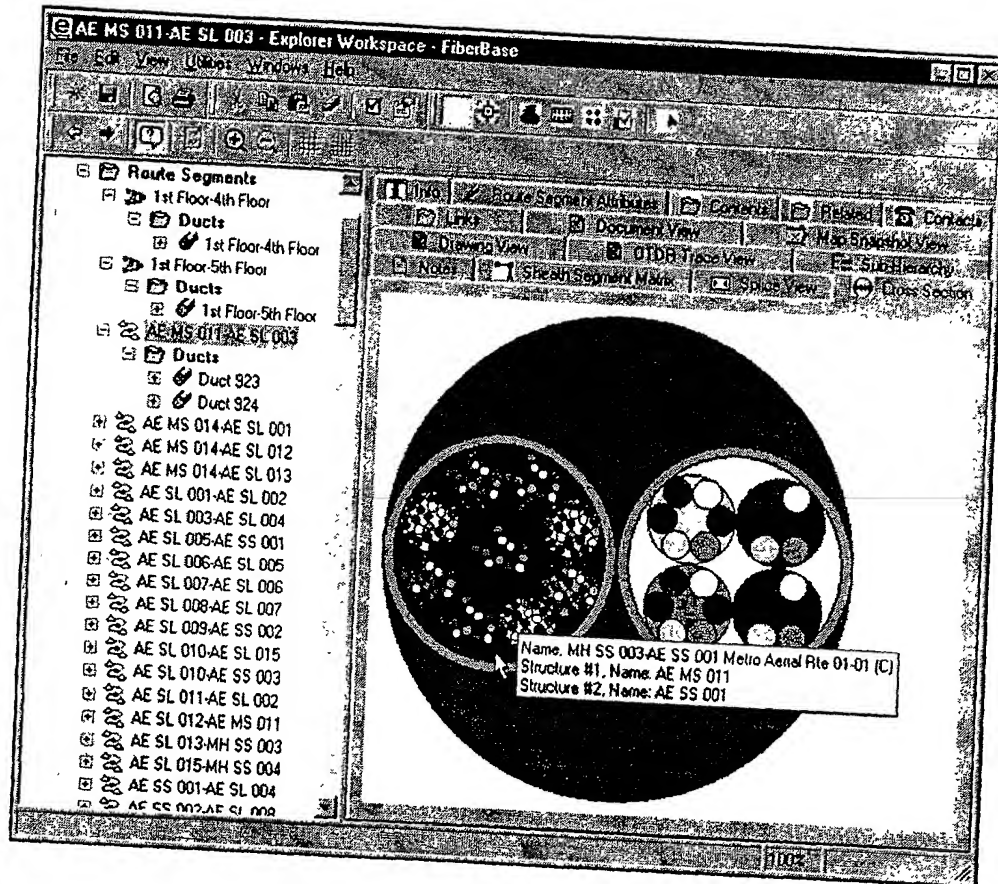


FIG. 152